

Treatises of
Fistula in Ano
Hæmorrhoids and Clysters



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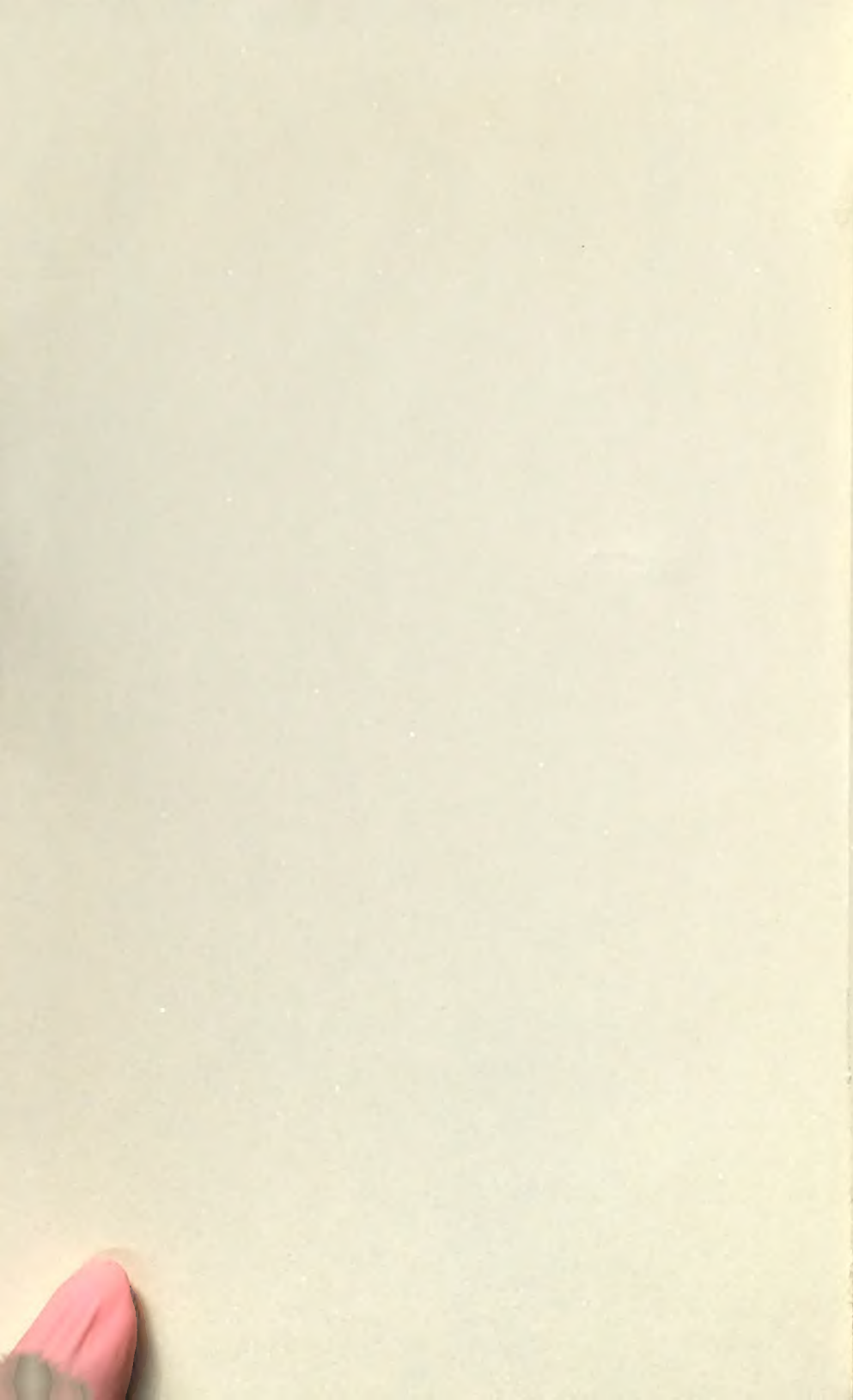
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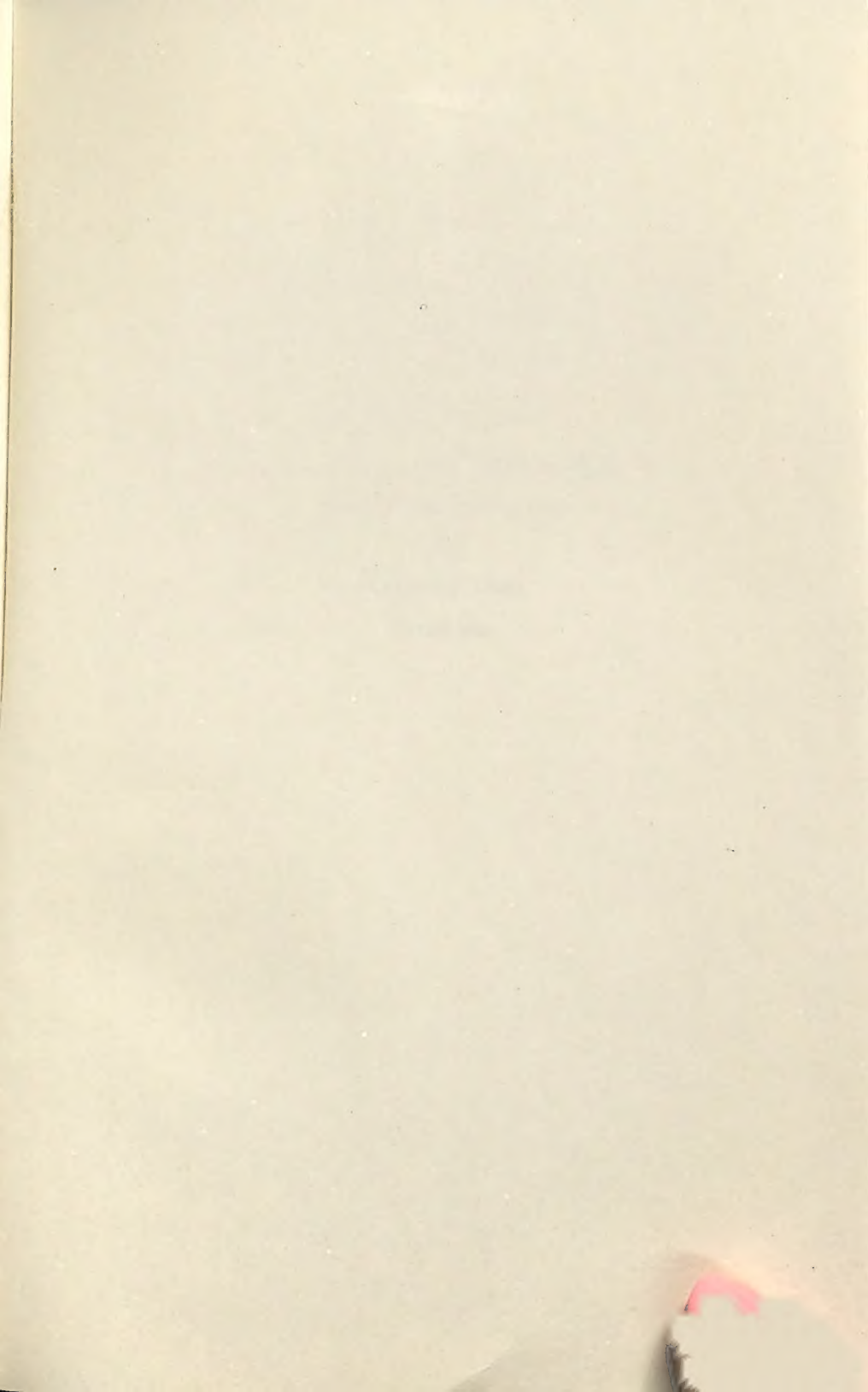
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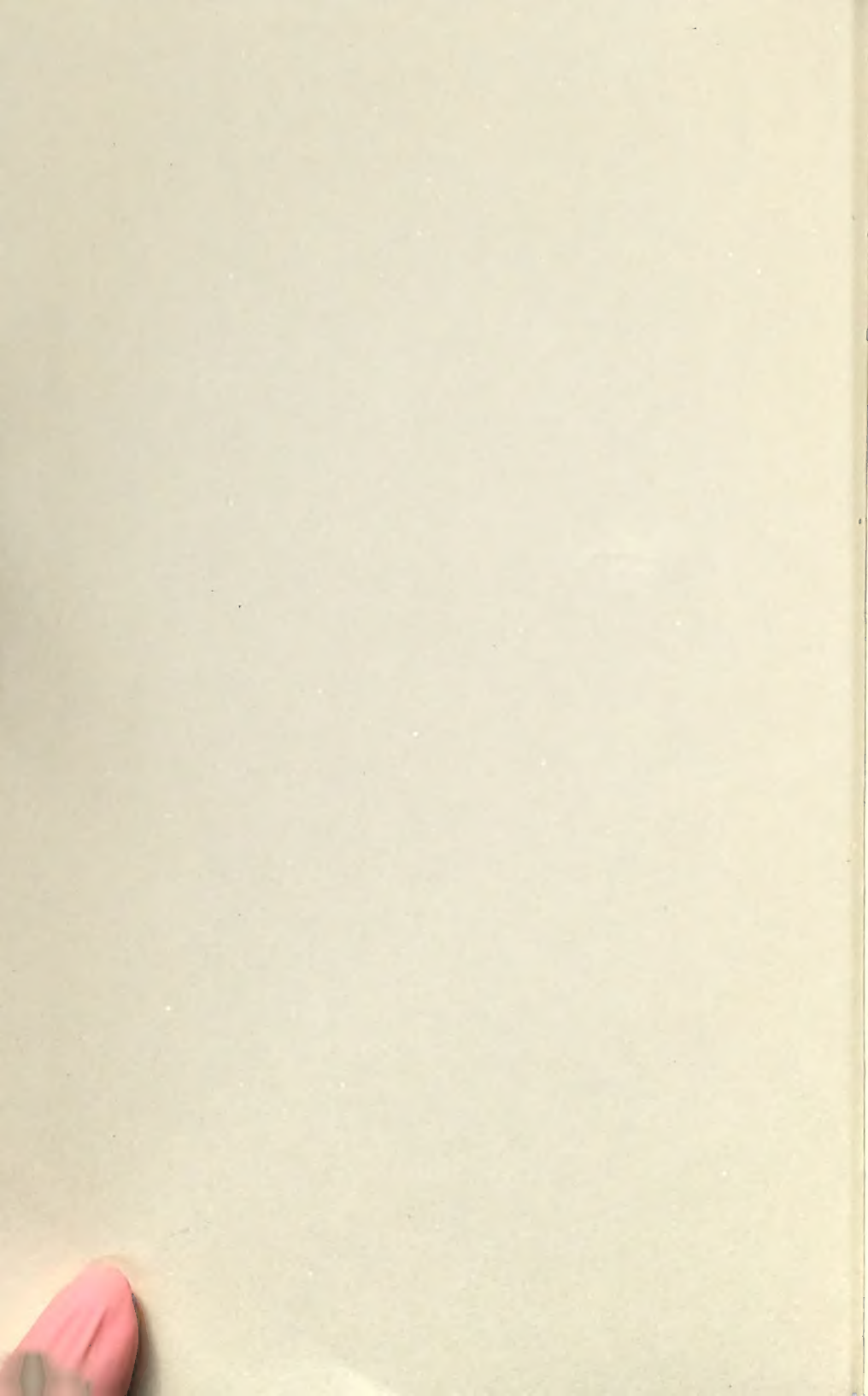
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Treatises of
Fistula in Ano

AND OF FISTULÆ IN OTHER PARTS OF THE BODY
AND OF APOSTEMES MAKING FISTULÆ, AND OF
AND TENASMON, AND OF CLYSTERS HÆMORRHOID
ALSO OF CERTAIN OINTMENTS, POWDERS AND OILS

EARLY ENGLISH TEXT SOCIETY

Original Series. No. 139

1910

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Sloane MS. 2002, leaf 24, back.

PLATE I. A Fourteenth-Century Master Surgeon operating for Fistula in Ano.

Treatises of
Fistula in Ano
Haemorrhoids, and Clysters

BY

JOHN ARDERNE

FROM AN EARLY FIFTEENTH-CENTURY
MANUSCRIPT TRANSLATION

EDITED BY

D'ARCY POWER

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TO
Joseph Frank Payne,
M.D. OXON., F.R.C.P. LOND.,
THESE TREATISES
OF ARDERNE
ARE DEDICATED
AS AN ACKNOWLEDGMENT OF HIS
ZEAL IN THE CAUSE OF
THE HISTORY OF ENGLISH MEDICINE.

Edin 3. 21. 15

Ms. A. 3. 21. 15

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ano from the early fifteenth-century manuscript
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or snowted needle: the frænum Cæsaris or fourfold
thread: the cochlear or shield: the tendiculum and
wrayste or vertile (cf. p. 112). The left-hand figure
shows the surgeon probing a sinus in the buttock;
the right-hand figure shows the tendiculum, wrayste
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FOREWORDS

THE history of mediæval medicine, says Prof. E. Nicaise,¹ has been divided into four great epochs. The first, lasting from the fifth to the eleventh century, was remarkable for the Arabian school of medicine. The second period embraced the eleventh and twelfth centuries, and witnessed the rise of the schola Salernitana: it was the time of the Crusades and of that intermingling of the East and West from which sprang the marvellous work of the twelfth and thirteenth centuries. The work of the third period was all too short, and was brought to a sudden close by the Black Death which ravaged the world in 1348-9. It is properly described as the beginning of the modern era, the pre-Renaissance. A mere list of the Universities established will give some idea of the intellectual activity of the time. Montpellier (1137); Paris (1176); Oxford (1200); Cambridge (1209); Padua (1222); Naples (1224); Salamanca (1230); Toulouse (1230); Orléans (1231); Valladolid (1250); Seville (1254); Coimbra-Lisbon (1290); Lerida (1300); Avignon (1303); Rome (1303); Grenoble (1332); Angers (1337); Pisa (1343); Prague (1347); Florence (1349); Perpignan (1349); Huesca (1359); Cracovia (1364); Pavia (1365); Orange (1365); Vienna (1365); Erfurt (1379); Heidelberg (1385); Cologne (1388); Buda (1389).² The fourth period was retrograde. Wars abroad and economic troubles at home seemed to have crushed the spirit of the few survivors from the previous generation.

John Arderne belongs to the thirteenth century in spirit and in thought, although the accident of birth placed him in the next generation. He was well educated, and he reflects the current ideas of his time just as every well-educated surgeon at the present day is an epitome of his surroundings. Nothing is known of his history except for the autobiographical details given in the various manuscripts of his works and a small body of floating tradition which has been handed down through the centuries.

¹ "La grande chirurgie de Guy de Chauliac." Paris, 1890, pp. x-xv.

² The dates appended to the Universities are merely intended to show when each was known to be actually in existence—a few were created, the majority developed from small beginnings.

BIOGRAPHICAL FACTS.

There seems to be little doubt that he was a member of the family of Arderne, or Arden, who claimed descent from Saxon times. The best known representative of the family was Turchill or Turketil, styled de Warwic in Domesday, and De Eardene in the Register of Abingdon Abbey, "being one of the first here in England that, in imitation of the Normans, assumed a surname."¹ The Ardernes were Lords of Watford in Northamptonshire from 1140, and spread thence to Cheshire and Staffordshire. In the Aldford, Cheshire, branch the name of John was borne hereditarily by John de Arderne (fl. 1220); Sir John de Arderne (1266-1308?); Sir John de Arderne (1307-1349); and John de Arderne (fl. 1332).² It was possibly the last-named John Arderne³ who received a grant of land in Connaught from Edward the Black Prince (Appendix, p. 105), and who is mentioned in John of Gaunt's Register⁴ as having been appointed Seneschal of the manor of Passenham in Northamptonshire on October 7th, 1374. The name of John Arderne, or John de Arderne, therefore, was well known in London,⁵ in the midlands and in the counties of Cheshire and Lancaster during the fourteenth century, but there is no evidence forthcoming at present to show to which branch of the family the surgeon belonged.

The date of Arderne's birth is fixed by his own statement that he was seventy in the first year of the reign of Richard II. Edward III died at Sheen on June 21, 1377, and was immediately succeeded by Richard II. Arderne, therefore, was born in 1307.⁶ It is clear too that he practised abroad, for he says that he tried a remedy "in foreign

¹ Dugdale, 675.

² "Parentalia," Genealogical Memoirs, compiled by George Ormerod, D.C.L. F.R.S., privately printed 1851.

³ Perhaps it was this John Arderne who is mentioned in Rymer's "Fœdera" (vol. ii, part 2, p. 119, col. 2). He was commanded to attend the King in war to Guienne in the year 1324.

⁴ I, 337, leaf 64, back. I am indebted to the kindness of Mr. Sydney Armitage-Smith for this reference.

⁵ In London John Arderne was a Fishmonger in 1361, and Richard Arderne was a prominent Skinner in 1376. John Arderne, esquire, was living in the parish of St. Mary Aldermariachurch in 1425. (Dr. Reginald Sharpe's "Calendar of Wills—Court of Husting." London, part 2, pp. 63 and 439.)

⁶ Sloane MS. 75, leaf 146. De Cura Oculi. "Et sciant presentes et futuri quoad Ego Magister Johannes de Ardern, chirurgorum minimus, hunc libellum propria manu meâ exaravi apud London; anno, videlicet regis Ricardi 2di primo et etatis me lxx. ("And be it known to present and future generations that I, Master John of Ardern, the least of the surgeons, scribbled this book with my own hand in London in the year, viz. the first year of the reign of King Richard the Second and in the seventieth year of my age.")

parts upon one King and two Bishops.”¹ I have no doubt in my own mind that the king was John of Gaunt, “Roy de Castell et de Leon, Duc de Lancastre,” who was always addressed as “Monseigneur d’Espagne.”² In 1376 John of Gaunt was the best hated man in England, says Mr. Sydney Armitage-Smith in his valuable study of his life. It was undesirable, therefore, John Arderne would think, to draw too close attention to the fact that he had once been attached to his person, for the book was written in this very year 1376. The precaution was wise in view of the events which happened when a London mob burnt the Duke’s palace at the Savoy in 1381 and killed his physician, merely because he was a trusted and valued friend.³ Mr. Sydney Armitage-Smith⁴ says that the name of the physician was William de Appleton, and that he was retained by the Duke of Lancaster at 40 mares per annum for life. An interesting example of the caution which was habitual to Ardern in this matter is to be found in two of the manuscripts in the British Museum. The one⁵ tells of a certain noble knight in the service of the Duke of Lancaster at Algeçiras, in Spain, who had a sudden attack of facial paralysis, which so twisted his mouth that it was drawn back nearly to his ear and prevented him from speaking. The manuscript continues, “I, the aforesaid John Ardern, made a cure of him.” The second manuscript⁶ gives an account of the same case, but, instead of giving any name to the leech who cured him, it merely says “for whom the King of Spain’s doctor made a cure in this way.”⁷ The latter MS. is a magnificently written copy on vellum, with such carefully executed illustrations that it is usually exhibited in the British Museum as an example of fourteenth-century work. It was possibly a presentation copy to John of Gaunt himself; the first one is a poorly written paper manuscript, such as would have an ordinary

¹ MS. bought at the Towneley Sale. It is now in the Surgeon General’s Library at Washington, U.S.A. The extract on leaf 54 is, “Hoc probavi in uno rege et duobus episcopis in transmarinis partibus.” It is quoted in the “Johns Hopkins Bulletin,” vol. v, 1894, pp. 21 and 67, but I am indebted to the courtesy of Lieut.-Col. Walter D. McCaw, Librarian S. G. O., for a complete transcription of the passage.

² “John of Gaunt,” by Sydney Armitage-Smith, p. 258.

³ Johannes de ordine Minorum in armis bellicis strenuus, in physica peritissimus, domino Johanni duci Lancastriae familiarissimus.”—Knighton’s Chronicle-Rolls Series, ii, 133.

⁴ *Op. cit.* p. 248, note.

⁵ Sloane MS. 3548.

⁶ Sloane 29301.

⁷ “Quidam miles nobilis Ducis Lancastriae apud Agezir in Hispania passus est subito torturam oris ita quod os ejus distractum fuit fere retro aurem nec loqui poterat. Ego Predictus Joh. Ardern talem feci sibi curam” (MS. 3548). “Cui medicus regis hyspaniae talem curam fecit,” says MS. 29301.

circulation. It was copied at a much later date, for the scribe, by mistake, has written *Henrici de Arderne*, and it belonged to Robert May.

Haeser¹ says that perhaps Arderne was educated at Montpellier and practised in France as a military surgeon on the English side during the earlier and most brilliant years of the One Hundred Years' War. E. H., who translated his "*Latin practises and consailes concerning the helping of all diseases*,"² in the early part of the seventeenth century, is responsible for the statement that he practised at Antwerp, and he certainly knew a few words of Flemish, for, in speaking of the Nightshade, he says that in Flanders it is called "*Naghtstach*" (p. 32).

Dr. Milward³ believed that he was present at the battle of Crecy, but this I take leave to doubt. He practised, or at any rate he treated patients, in Wiltshire,⁴ and from 1349 until 1370 he lived at Newark in Nottinghamshire.⁵ He came to London in 1370, but I have found no record of where he lived. It was the year of his grand climacteric, in an age when men lived a much shorter time than now, yet he practised with vigour and success for five or six years. By this time he had secured a competence and he set himself to write. In 1376 he issued his treatise on the cure of *Fistula in ano* which is here printed, "*written*," as he says, "*with my own hand, in the year when the strong and warlike Lord*" (Edward the Black Prince) "*was taken to God*."⁶ It is possible that the treatise on *Clysters*⁷ was already written; it is certain that the treatise "*De cura oculorum*" was written in 1377,⁸ but we know nothing more than this about John Arderne. There is nothing to show that he was living in the reign of Henry IV, who came to the throne in 1399. The reference to Henry IV (p. 74), "*With this medicine was kyng Henry of ynglond cured of the going out of the lure*," is a side-note written in a different hand in some of the MSS. and has only crept into the English text in

¹ "*Lehrbuch d. geschichte der Med.*," ed. 3, Jena, 1875, i, 784.

² Sloane MS. 2271.

³ A circular invitatory letter . . . concerning . . . British Physical and Chirurgical Authors, by Edward Milward, M.D., Lond. 1740, p. 23.

⁴ "*Hoc probavi in vicecomite Wilteshure*," says the MS. in the Surgeon-General's Library at Washington, U.S.A., quoted in the "*Johns Hopkins Hospital Bulletin*," vol. v, 1894, pp. 21 and 67, and I am again indebted to Lieut.-Col. McCaw for verifying the reference.

⁵ *Teste* all the MSS.

⁶ "*Et eodem anno quo Dominus strenuus et bellicosus Princeps migravit ad Dominum, scripsi libellum istum manu propria, viz. Millesimo cccxxvi. . . quem Deus absolvat, quia fuit flos Milicie Mundi sine pare.*"

⁷ See *postea*, p. 74 *et seqq.*

⁸ P. x, note 6, of these Forewords.

process of time. The Hunterian copy of the Commentary in English on "*Aegidii Corboliensis tractatus metricus de Urinis*," which mentions the leech of "our Lord King the most illustrious prince Henry the Fourth, on whose soul may God have Mercy, Amen," was clearly written after 20 March, 1413, and the scribe has forgotten Arderne's right name, for he says that it is written by Master John Arderon.¹

It seems to me that the easiest way to correlate the various facts recorded about John Arderne is to assume that he was attached at first to Henry Plantagenet, the first Duke of Lancaster, and afterwards to John of Gaunt, who married his younger daughter Blanche as his first wife—the White Lady of Chaucer's "*Book of the Duchess*." Henry, as Earl of Derby, was at Antwerp in 1338, and John Arderne is said to have practised there. Henry, in company with the Earl of Salisbury, fought against the Moors at the siege of Algeçiras in 1343, when much use was made of Greek fire, and gunpowder is said to have been employed for the first time. John Arderne had been to Algeçiras because he treated a knight there who was suffering from a trivial complaint from which he would have recovered during the long journey, if he had visited Arderne in England. Arderne was interested both in Greek fire and in gunpowder, for he gives a receipt for making *Ignis Græcus* and for an artificial fire to burn ships. Henry of Lancaster was Lieutenant and Captain of Aquitaine in 1345, and was granted the town of Bergerac with the right of coinage in 1347. John Arderne nowhere says specifically that he served with the Earl of Derby, Duke of Lancaster, but he betrays an intimate knowledge of this campaign, for he gives the names of the towns in the order in which they were reached by the invading army and not in their geographical succession; his knowledge is even remarkable, for he gives the towns in the order in which they were reached by a single column of the army, and he was writing more than thirty years after the events.²

¹ "Ego Magister Johannes Arderonn hoc opusculum composui de iudiciis uninarum per colores et contenta secundum indicium Egidii et Ypocratis, Walterii, Gilis, Gilberti, Gordoni, Johannis de Sancto Amando, Ysaac, Auicenne, theophili, Galyeni, Galterii et tholomei in medicinam et medicum domini regis illustrissimi principis henrici quarti cujus anime propicietur deus. Amen." The MS. is in the Hunterian Library at Glasgow, No. 328, U. 7, 22 (cf. Notes, 59/32).

² "The forsaied sir Adam (p. 1, line 12 *et seqq.*) forsooth suffering from fistula in ano asked counsel of all the leeches and surgeons that he could find in Gascony, at Bordeaux, at Bergerac, Toulouse, Narbonne and Poitiers." Arderne seems to have had a soft place in his heart for Narbonne. He calls one of his favourite plaisters *Emplastron de Nerbon*, and says, "*Istud emplastron dicitur Norbon quia quamvis sit nigrum tamen bonum.*" ("This emplastre is called Noirbon, for although it be black nevertheless it is good." P. 91, l. 31.)

The campaign ended and the Duke of Lancaster returned to London, 13th January, 1347-8, and died of the plague at Leicester in 1361. John Arderne may then have attached himself to John of Gaunt, the son-in-law of the Duke, who called himself King of Castile and Leon from his marriage with Constance, daughter of Don Pedro I of Castile, in September 1371, until his own daughter Katherine married Enrique III in 1388, and became Queen of Castile and Leon in 1390. If Arderne was really surgeon to the King of Castile it must have been after the year 1370, and this perhaps gives the reason why John Arderne left Newark after he had practised there for so many years. Mr. Armitage-Smith tells me, however, that there is no record of such an appointment in the Duke's roll which he has lately published.

ARDERNE AS A SURGEON.

John Arderne is a good example of a type of surgeon who has happily never been absent from England. He is the earliest example that we know at present, but he was followed in direct succession by Thomas Morstede, who was present at Agincourt in 1415, and was buried in St. Olave, Upwell, in the Jewry, in 1450; by Richard Ferris, who wrote nothing, but was revered as their master by many succeeding generations of surgeons in London. He died, an old man, in 1566, and had seen much service in the wars of Henry VIII. William Clowes (1540-1604), my great predecessor at St. Bartholomew's Hospital, learnt much of him. Clowes handed on the tradition to John Woodall (1556-1643), and Woodall to Richard Wiseman (1622-1676), the surgeon of the Commonwealth. Wiseman was succeeded by Samuel Sharp (1700 (?) - 1778) of Guy's Hospital, and by Percivall Pott (1714-1788) at St. Bartholomew's. The distinguishing mark of each was the possession of the qualities which make an English gentleman as well as a fine surgeon. They were all men of good education, wide experience, and sound judgment. John Arderne possessed these qualities in abundance. He preferred personal experience to the teaching of the schools. He would rather learn by experiment than by authority, and with characteristic frankness he related his failures as well as his successes (p. 83). He was not in advance of his time, for he believed, like every one else, in Astrology (p. 16). He kept his methods as secret as he could by giving fancy names to his ointments and plaisters (p. 89), and by writing his charm in Greek letters "*ne a laicis perspicitur*" (p. 103).

John Arderne wrote on *Fistula*, on diseases of the Eye, on Clysters, on Bleeding; on Plants and their Uses, and he also published a common-place book containing various receipts and notes of cases arranged without any method. There exists also his Commentary on Giles de Corbeil's metrical treatise "*de Urinis*" (p. xiii, note 1), and he is the author of a "*Scala Sanitatis contra plagas*." By some means he had access to a large medical library, for he quotes the very words of the manuscripts to which he refers in his treatise on *Hæmorrhoids* (p. 55, line 3), and it is evident that they were lying before him as he wrote. It is clear from the number of manuscripts which still remain in the various libraries (Bibliography, pp. xxxiv and xxxv) that Arderne's works were read and valued by his contemporaries and immediate successors. They were written originally in Latin, and, as he is careful to explain, with his own hand, but English translations were soon produced. The Latin is of the colloquial type like that in which the "*Epistolæ Obscurorum Virorum*" was written in the early years of the sixteenth century, neither better nor worse, and when Arderne was at fault for a Latin word he never scrupled to use its English or French equivalent. His handwriting was as crabbed as his style, if, as there is some reason for believing, the Sloane MS., No. 75, is a holograph in so far as it deals with diseases of the eyes. The treatise on *Fistula in Ano* is certainly the most interesting and practical of Arderne's works. John Read published an abstract of a part of this treatise in the reign of Queen Elizabeth, but it has never been printed in full until now, and for this purpose an early fifteenth-century translation has been selected.

THE TREATMENT OF FISTULA IN ANO.

Arderne's attention was no doubt called to the subject of *Fistula* by the actual cases which came to him for relief. The hardship of the Hundred Years' War must have produced many cases of ischio-rectal abscess which ended in fistula. Wet, cold, long hours in the saddle weighted down by the heavy armour of the time, would readily lead to this condition in the knightly class; whilst the sedentary habits and gross feeding causing chronic constipation would account for it in the religious and civic population. Tubercle, too, was rife in the fourteenth century, but it would be interesting to learn whether the Black Death left an aftermath of boils and abscesses. The work is full of detail, and shows the author to be original, thoughtful, observant, and a master of his art both in theory and practice. He

says, very rightly, that the treatment of fistula in ano had fallen into disrepute because it was a troublesome condition which brought very little credit to surgeons, whilst it required long and patient treatment for which the majority of the sufferers were not prepared to pay. An examination of the writings of the immediate predecessors and contemporaries of John Arderne shows that these statements are literally correct. To go back no farther than Albucasis, who died in 1013,¹ it was taught that complete fistulae were incurable, and that all operations and the application of ointments was but labour in vain. Some believed that a cure could be obtained occasionally, and Albucasis advised, therefore, that a small copper or iron probe should be introduced into the bowel through the fistula which should then be laid open in its whole extent until the probe fell out. But if the bleeding were so severe as to stop the operation, or the surgeon was afraid of the hæmorrhage, the actual cautery might be used. In other cases, Albucasis taught, a probe armed with a ligature of five strands might be passed from the external orifice of the fistula through its track into the rectum. The end of the probe was then caught by the finger and drawn out through the anus bringing with it one end of the ligature. The two ends of the ligature, the one hanging out of the fistula and the other from the anus, were then tied tightly together, care being taken to include as much tissue as possible. The knot was tightened on the second or third day, and as often afterwards as was necessary. The fistula was thus cured by the ligature cutting its way out, the track behind it healing by granulation.

William de Salicet (fl. 1245), who taught surgery at Bologna, and was considered the most skilful surgeon of his age, had so great a dread of fistula that he wrote:² "When the fistula is complete it is assuredly so difficult to cure that it is better and more honourable for the surgeon to give up the case at once. But if he decide to undertake it the orifice should be dilated with a sponge tent and the whole track burnt with the actual cautery. If this fails the fistula may be laid open into the bowel by a seton of silk, horsehair or cow's hair pulled to and fro daily like a saw until it cuts its way out; but," he adds, as a warning, "I have seen bad results from this method of cure."

Lanfrank, the most distinguished pupil of William de Salicet, who

¹ "Methodus Medendi certa, clara et brevis," Lib. ii, cap. 810. Basil, 1541, p. 132.

² "Chirurgie de Guillaume de Salicet." Paul Pifteau. Toulouse, 1898, p. 139.

died in 1306, the year before John Arderne was born, contents himself with saying that fistulæ are incurable, and he utters a lamentable cry against those who would attempt to operate even if it were only by applying a corrosive.¹

Henri de Mondeville (1260(?)–1320(?)) merely enlarged the orifice of the fistula with a tent, and utterly condemns the teaching of the school of Salernum, as represented by Roger and Roland, who would operate and afterwards apply a painful corrosive,²—and de Mondeville was in Paris what Arderne was in London, a first-rate surgeon.

Guy de Chauliac (d. 1368), prince of the mediæval writers of surgical text-books, published his "Great Surgery" thirteen years before Arderne wrote his treatise on *Fistula*. After the manner of text-books various operations are described for the cure of fistula, each with insufficient details, and the reader is left in doubt as to which, if any, is to be employed.³

ARDERNE'S OPERATION FOR FISTULA.

John Arderne's operation is clearly a modification of the method recommended by Albucasis, and, like a good surgeon, he preferred a clean incision to fretting the fistula through with a ligature tied tightly. He recommends that the patient should be secured in the lithotomy position. A probe—called appropriately enough, *sequare me*—is passed through the fistula until it is felt in the rectum. The eye of the probe is then threaded with a ligature of four strands—the *frænum Cæsaris*—which is drawn through the fistula as the probe is pulled out of the rectum until one end hangs out of the anus and the other from the opening of the fistula. These two ends are knotted together and the whole ligature is tightened by means of a peg—the *wrayste*—fixed into the widest part of a gorget—the *tendiculum*—in the same way that a violin peg tightens the strings passing round it. The use of the ligature is partly to control the bleeding and partly to maintain a correct line while the fistula is being divided. The gorget or *tendiculum* is pushed well up into the fistula and a grooved director with a curved end—the *acus rostrata*, or snowed needle—is passed along it until the end projects into the rectum where the probe had

¹ Lanfrank's "Science of Chirurgie," Early English Text Society, No. 102, pp. 292-3.

² "Chirurgie de Maître Henri de Mondeville." E. Nicaise. Paris, 1893, p. 465.

³ "La Grande Chirurgie de Guy de Chauliac, composée en l'an 1363." E. Nicaise. Paris, 1890, p. 134.

been previously inserted. A shield—the cochlearia, or spoon—with a depression in its centre is then passed through the anus until the grooved director engages in the depressed notch. The object of this shield is partly to prevent the surgeon cutting down upon his own finger and partly to protect the opposite wall of the rectum should the patient struggle or make a sudden movement at the moment the fistula is divided. A scalpel—the razor or lance—is passed along the groove in the acus rostrata, and the fistula is cleanly divided along its whole length by drawing the knife, the acus rostrata, and the spoon out of the rectum with a single movement, the ligature or frænum Cæsaris coming away at the same time. Each branch of the fistula may be laid open in turn if the patient can bear it, or any farther operation can be postponed, as Arderne had found by experience that when the main track was laid open the other channels often healed of themselves.

The operation was a good one, except that his instruments were needlessly cumbersome, and would cure a fistula equally well at the present day, but the great advance which Arderne made was in avoiding the corrosive and irritating after-treatment used by every one else. It is difficult now to put ourselves in his position and to realize what an amount of originality it meant for a surgeon in the fourteenth century to leave a wound alone and not to try and kill it with the actual cautery or with caustics. Such a method was contrary to all teaching, and would seem to be undertaken with the very greatest risk. Yet John Arderne only applied a little oil of roses with the white or yolk of an egg, and he washed the wound with tepid water and a sponge. He never changed the dressings oftener than he could help (p. 87), but he was careful to see that they were not soiled, whilst his experience with simple enemata led him to prefer a clyster of salt and water to the powerful purgatives in ordinary use. Some of his patients recovered, therefore, and he was not slow to advertise the fact; but the weight of authority was against him, and in spite of his success, surgeons preferred to mundify their wounds and use incarnatives for nearly five hundred years after his death.

THE MASTER SURGEONS.

The position which Arderne occupied was perfectly well recognized both in England and France, and was identical with that which we occupy at the present time as consulting and operating surgeons. In France such surgeons were known in Arderne's time as surgeons of the

long robe, to distinguish them from the barbers practising surgery, who were surgeons of the short robe. In England the prefix of Master indicated the difference, and John Arderne is careful therefore always to style himself *Magister Johannes de Arderne*, *Magister* being his title as Master of Surgery, which distinguished him, on the one hand, from the Doctor of Physic who was his superior, and, on the other, from the Barber and the Apothecary who ranked below him. The Master Surgeons formed a small guild in London from very early times, and records of persons entrusted with its supervision are known as early as 1369.¹ Arderne calls himself "*cirurgorum minimus*" (p. x, note 6), and he was probably admitted a member of this guild when he came to London in 1370, in which case Master John Dunheued, Master John Hyndstoke and Master Nicholas Kildesby would be three of his colleagues. The guild never contained many members, but what it lacked in numbers it made up in influence, and, in spite of many struggles with the more numerous Guild of Barbers, it was able to hold its own for many years. The Guild of Surgeons united for a short time with the Physicians about 1423, and finally became merged into the United Company of Barbers and Surgeons in 1540. But it is unnecessary to trace the growth and development of the Guild of Surgeons, and those who are interested in it will find a fuller account in "*The Medical Magazine*" for 1899. The present treatise contains slight references to the struggle which was going on between the Surgeons and the Barbers at the time it was written. There is the case, for instance (p. 100), of the rich fishmonger who had a lacerated wound of the arm which was made worse by the incompetent treatment of a barber who had stuffed it with corrosive dressings. Arderne tore off the dressings and replaced them by a soothing fomentation which allowed the patient to have a good night's rest.

But the human interest of the treatises here published is concentrated in Arderne's description of the qualities required in a good surgeon (p. 4). It sets forth his ideal of the morals and etiquette of the highest class of surgeons—the Masters of Surgery—during the thirteenth and fourteenth centuries, and shows that it was at least as high as it is amongst the best men of the present day. Pity, charity, continence in all things, the patient first but the fee not unimportant, because then as now the labourer was worthy of his hire, were the distinguishing characteristics of the educated surgeon.

Henri de Mondeville gives similar rules in somewhat greater detail.

¹ South's "*Craft of Surgery*," p. 17. Messrs. Cassell & Co., London, 1886.

I quote partly from Prof. E. Nicaise's splendid edition of his works,¹ and partly from the contemporary translation into French, published by Dr. A. Bos:² "A Surgeon ought to be fairly bold. He ought not to quarrel before the laity, and although he should operate wisely and prudently, he should never undertake any dangerous operation unless he is sure that it is the only way to avoid a greater danger. His limbs, and especially his hands, should be well-shaped with long, delicate and supple fingers which must not be tremulous. He ought to promise a cure to every patient, but he should tell the parents or the friends if there is any danger. He should refuse as far as possible all difficult cases, and he should never mix himself up with desperate ones. He may give advice to the poor for the love of God only, but the wealthy should be made to pay well. He should neither praise himself nor blame others, and he should not hate any of his colleagues. He ought to sympathise with his patients in their distress and fall in with their lawful requests so far as they do not interfere with the treatment. Patients, on the other hand, should obey their surgeons implicitly in everything appertaining to their cure. The surgeon's assistants must be loyal to their surgeon and friendly to his patients. They should not tell the patient what the surgeon said unless the news is pleasant, and they should always appear cheerful. They must agree amongst themselves as well as with the patients, and they must not be always grumbling, because this inspires fear and doubt in the patient."

De Mondeville then shows how an honest surgeon may be replaced and damaged by one who is less conscientious, for he says: "A rich man has the beginning of an inflammation. He calls in an upright surgeon, who says after examining him, 'Seigneur, there is no need for any operation here, because nature will relieve herself, etc.; but if the inflammation gets worse, send for me.' It then happens that the patient calls in another man who is a quack, and he is told, 'Seigneur, you have a great deal of inflammation, I can feel it inside, and if you are not treated at once you will certainly regret it.' This surgeon then sets to work and makes an inflammation, which he afterwards cures, so that the whole proceeding redounds to his credit and profit, for he discovered an inflammation which did not exist, whilst the first surgeon is damaged both in his reputation and his pocket because he did not find out what was not there."

¹ "Chirurgie de Maître Henri de Mondeville, composée de 1306 à 1320," par Ed. Nicaise. Paris, 1893, pp. 91 *et seqq.*

² "Soc. des Anciens Textes Français." Paris, 1897, tome i, p. 140.

"Then again, one of these second-rate surgeons will come to a sick man who is wealthy, and will say to him, with the voice of an archangel—taking care that no witnesses are present—'Seigneur, you must remember that you are the one who is ill and in pain. It is not your son or your nephew. It is you who are kept awake by the pain whilst your friends and servants sleep. Others won't take care of you if you don't take care of yourself. You are rich enough to get advice and to buy health and whatever else you want if you choose to do so. Riches are not more than health, nor is poverty worse than sickness. Have you not made the greater part of your money yourself and for yourself, so that if you are not a miser you can apply it to relieve your wants? Would to God that those who look after you so badly had your complaint. But all this is between ourselves, and what I tell you is only out of pity for you and for your good.' Then, in the absence of the patient, he speaks to the relatives and says, 'Seigneurs, this man has the greatest confidence in you, and, truly, if you lose him, you will lose an excellent friend. It is not to your credit either to let him go without advice, for if he died without advice you would be blamed everlastingly, even if it made him as poor as Job. He is really in great danger, and it is a serious case, but nature sometimes does better than we have any right to expect. He is sure to die if no one treats him, but if he is properly treated it is just possible that he will escape and not die. If he dies it won't be the result of the treatment, because he is nearly dead already, his only chance is to have a consultation, etc. I am speaking to you as a friend and not as a doctor.'

"But it is quite another matter when this same surgeon has to treat a poor man, for he says, 'I am really sorry for you, and I would gladly help you for the love of God only. But I am very busy just now with a lot of difficult cases, and, besides, the season is not a very favourable one for an operation. You can't afford to buy what is necessary for your case, such as drugs and dressings, so I would put it off until the summer. You will then be able to get the herbs and whatever else is wanted and so save expense. The summer, too, is the best time for the poor.' When the same pauper comes back in the summer the surgeon says to him, 'I am very sorry that I put you off in the winter and told you to wait until the summer, because the winter is really the best time. Summer is too hot and there is a fear of stirring up the disease. I should advise you to wait until the hot weather is over.' And this goes on everlastingly, for this kind of surgeon never finds time to operate upon a pauper."

De Mondeville classifies his patients according to their ability to pay fees. "The first class are paupers who must be treated for nothing; the second class are a little better off, and may send presents of fowls and ducks; they pay in kind. The third class are friends and relations who pay no fixed fee, but send victuals or presents in token of gratitude, but no money. Our assistants ought to suggest the presents to this class, saying behind our backs, and as if we knew nothing about it, when anything is said about money, 'No, indeed, the Master would not like it, and you would do much better to make him a little present, though I am sure that he does not expect anything.' Indeed, a sharp assistant sometimes makes more by such suggestions than the Master does by his operation, and it is just like doubling the fee on account of the horse when the Master makes his visits on horseback. Then there is a class embracing those who are notoriously bad payers, such as our nobility and their households, government officials, judges, baillies and lawyers, whom we are obliged to treat because we dare not offend them. In fact, the longer we treat these people the more we lose. It is best to cure them as quickly as possible, and to give them the best medicines. Lastly, there is a class who pay in full and in advance, and they should be prevented from getting ill at all, because we are paid a salary to keep them in health."

The difficulty of obtaining payment for operations in the fourteenth century must have been very great, for De Mondeville still further emphasizes it and says, "The chief object of the patient, and the one idea which dominates all his actions, is to get cured, and when once he is cured he forgets his own obligation and omits to pay; the object of the surgeon, on the other hand, is to obtain his money, and he should never be satisfied with a promise or a pledge, but he should either have the money in advance or take a bond for it. As the poet says, '*Sæpe fides data fallit, plegius plaidit, vadium valet*—The promise is often broken, the security is worthless, the bond alone holds good.'" De Mondeville also thinks that it is better on the whole for the surgeon to be paid for what he does rather than by a retaining fee, because a salary is apt to make him so hopeful that he will think the blind can certainly see and the lame can walk or even run. The surgeon too must beware of those who will make infamous proposals to him, because from time immemorial it has been an article of faith with the common people that every surgeon is a thief, a murderer or a swindler. He should also be careful to estimate the strength of a patient before he operates. If a patient dies of the operation and not of mere weakness the surgeon is held excused so long as the friends

think the wound looks healthy, but if the wound looks badly the surgeon is credited with the death even though the patient has simply died of weakness. The surgeon must not put too much faith in appearances. The rich have a nasty habit of coming to him in old clothes, or, if they are properly dressed as befits their station they invent all kinds of excuses for beating down his fees. They say Charity is a flower when they find a man who helps the poor, and think that a surgeon ought to assist the unfortunate, but they never consider that a like rule is binding upon them. "I often say to such folk," De Mondeville adds, "Well, then, pay me for yourself and for three paupers and I will cure them as well as you. But they never make any answer, and I have never yet found any one in any position, whether he was a cleric or a layman, who was rich enough, or rather honest enough, to pay what he had promised until he was made to do so." Lesser surgeons must have fared very badly if this was the experience of the surgeon to the King of France.

De Mondeville returns to the question of fees in another part of his book (Nicaise, *op. cit.* p. 199). "The surgeon ought to consider three things when a patient comes to see him and arrange about the fee for an operation. First, his own position; secondly, the condition of the patient; thirdly, the state of the disease. As regards himself the surgeon should think whether he is celebrated or at least better known than his colleagues, whether he is the only surgeon in the country, whether he is rich and not obliged to practise, whether he has enough cases to fill up his time, and whether he is on the point of undertaking more important cases. On the second point, viz. the condition of the patient. He either knows or he does not know him; if he knows him he is aware whether he is rich or poor, whether, for example, he is the nephew of a bishop or of an abbé. But if he does not know him he ought to make careful inquiries, or rather he ought to get his assistants to make them, because sometimes, indeed often, it happens that the rich come to the leech dressed like paupers. If the surgeon suspects this he should say to his patient, 'Seigneur, I have examined your case but I must think it over, and I should like to see you again when I have done so, because he who judges in haste repents at leisure,' and in the interval the surgeon should make inquiries. As to the third point, the surgeon should think of the disease whether it is serious, if it is difficult to cure, and if long attendance will be required, whether few people know how to treat it, if it is chronic, and if it presents any unusual characters.

"When the surgeon has considered all the points under these three

headings he ought to charge the patient boldly a very large fee, though he may moderate it according to circumstances. To a rich man he should say, 'The fee a surgeon ought to receive is a hundred pounds for this operation,' and if the patient is staggered by the sum he would continue, 'but I did not say that I was going to charge you that amount,' and thus little by little he lowers his fee. But he should always have a minimum for each operation and never go below it. In such cases it is more graceful for him to say, 'I am ready to do this operation as you and your friends wish, but I would rather do it for nothing to please you than for so small a fee.' And the surgeon should pretend that he has no living (prebende) nor capital except his profession, and that everything is as dear as possible, especially drugs, and ointment; that the fee is as nothing compared with his services; and the wages of all other artisans, masons, for example, have doubled of late. I repeat that the surgeon ought to charge the rich as much as possible and to get all he can out of them, provided that he does all he can to cure the poor. You then, Surgeons, if you operate conscientiously upon the rich for a sufficient fee and upon the poor for charity, you ought not to fear the ravages of fire, nor of rain nor of wind; you need not take orders or make pilgrimages nor undertake any work of that kind, because by your science you can save your souls alive, live without poverty and die in your houses. Live in peace and joy and rejoice because your recompense is so great in heaven, as necessarily follows from the words of the Saviour, spoken in the psalm by the mouth of His prophet, 'Beatus qui intelligit super egenum et pauperem. . .' For this reason surgeons enjoy such immunities and are free from all personal service and from all common burdens, such as the repair of walls, moats and roads, from the night watch in towns, and from all kinds of things. The Surgeons are classed as Surgeon-major and as Surgeons of the palace or Examiners, who are generally called Archiatres by the common people."

William of Salicet, another surgeon, experienced in war and of the same high standard as Arderne and De Mondeville, had written in 1275 ("Chirurgie de Guillaume de Salicet Achevée en 1275, Traduction et Commentaire, par Paul Pifteau." Toulouse, 1898, p. 3) in somewhat similar terms. He says a surgeon should grant the wishes of his patient so long as they do not interfere with the operation. He ought also to comfort his patient as far as possible by kind actions and by soothing words. He should hold out hope even in the most desperate cases, because the patient's courage reacts to these words and promises,

and they may have a more powerful influence on his recovery than any of the surgeon's remedies. But the matter should be discussed with the friends whenever there is danger, partly to save them the shock of an unexpected death, and partly to protect the surgeon from any suspicion of having caused it. Neither a surgeon nor a physician should talk to the women of the house with closed doors, whether she be mistress or servant. He should never speak improperly to her, nor make eyes at her, especially in the presence of the patient. Such actions may cause a patient to lose confidence in his surgeon, and thus the operation may prove unsuccessful because the patient has lost the good opinion he had of the operator. A wise surgeon too will do well to refrain from stealing anything whilst he is in attendance; he will not stir up strife amongst the patient's friends or quarrel with the people of the house; he will be careful, too, not to employ notoriously bad characters as his assistants, for all these things may spoil a good operation and thus detract from the dignity of medicine. Above all things, he must refrain from becoming too familiar with the laity. They are always ready to speak ill of doctors, and too great familiarity merely means that one cannot demand the proper fees for an operation with any assurance and safety. It is well known that a large fee increases the authority of the doctor as well as the confidence the patient puts in him, even though the doctor is very ignorant, because it is thought that a large fee secures better attention. The surgeon ought to observe the rules of those with whom he is living or amongst whom he finds himself. He should visit the poor because it is a good thing to have a reputation for Charity, partly because it increases his estimation in the eyes of the people, and partly because it enables the Divine Power to extend its influence over his spirit. The surgeon ought not to allow himself to be swayed by the entreaties of the patient, because if he yields the patient will lose faith in the operator, and the operator may himself become timid and hesitating. The assistants ought to be amiable and helpful to the patient, and they should never repeat to him what the surgeon has said unless it is pleasant and encouraging. Leeches should be especially careful not to discuss matters with the patient or in his presence, and above all things, they must avoid whispering or talking together in corners, for such actions rouse all kinds of suspicion in the mind of the patient and his friends.

Lanfrank, who was in Paris in 1295, and is looked upon as the founder of French surgery, says in the English version transcribed in

1380 (Early English Text Society, No. 102, 1894, p. 8): "Needful it is that a surgeon be of a complexion well proportioned. . . He must have hands well shaped, long small fingers, and his body not quaking. Also he must be of subtle wit, for all things that (be)longeth to surgery may not with letters be written. . . Be he no glutton, nor not envious nor a niggard; be he true; humble and pleasingly bear himself to his patients; speak he no ribaldry in the sick man's house; give he no counsel but if he be asked; nor speak he with no woman in folly in the man's house; nor chide he not with the sick man nor none of his household, but courteously speak to the sick man, and in all manner of sickness promise him health although you despair of him, but nevertheless tell his friends the truth. Love no hard cures and undertake no desperate cases. Help poor men as far as possible and ask good reward of the rich. Praise he not himself with his own mouth, nor blame he over sharply other leeches. Love he all leeches and clerics, and, as far as possible, make he no leech his enemy. So clothe he himself with virtue that he may obtain a good name and a fair reputation. This is the ethical teaching."

It is clear from these extracts that Arderne had read Lanfrank's rules for a surgeon, and that he amplified them from his own experience, which corresponded very much with that of the French surgeons who were his contemporaries. But Arderne's teaching of the duties of a surgeon compares very favourably with that of William Salicet or Henri de Mondeville. He had a higher moral tone, or, at any rate, he based his warnings on morality rather than upon self-interest, and there is nowhere any reference to a surgeon as a common thief. His fees are high, but, as a contemporary writer explains, this is to make up for the long periods when he had nothing to do, and it is clear that it was extremely difficult to obtain money from patients.

Every surgeon was taught never to treat cases which appeared incurable or were unlikely to run a straightforward course. This was due to ignorance, to the weakness of the law, and to the arbitrary treatment to which individuals might be exposed. Throughout the Middle Ages, and long afterwards, there was no science of toxicology and very little knowledge of morbid anatomy. Persons who died suddenly, therefore, were usually thought to have been killed by poison, and the histories of the present day are full of accounts of the deaths of great men who are said to have been poisoned, when it is clear to every medical reader that they died a natural death from some acute disease. A perforated gastric ulcer, a perforated duodenal ulcer, an acute gan-

grenous inflammation of the vermiform appendix would present all the characters of poisoning to the lay mind. Failure after an operation was liable to be followed by the most undesirable consequences to the leech. King John of Bohemia, from whose body Edward the Black Prince took an ostrich feather for his crest, sewed up his French leech in a sack and threw him into the Oder because he had not cured his cataract as he had promised.

Arderne must have led an interesting and adventurous life, and his treatises contain many sidelights on contemporary events. He appears to be the only contemporary authority for the story of the means by which Edward the Black Prince obtained the ostrich feather which has since become the cognisance of the heir apparent to the English throne. The passage runs as follows, "We are not able to cure rhagades unless the remedy can be put through the anus either as a clyster or by means of a suppository, since remedies applied outside are either useless or do very little good. We ought, therefore, to work with stimulating applications until the wound is clean, and afterwards with applications which both heal and dry, as has been said already in the chapter on internal piles, to wit, where Nastar is painted—and Nastar is a kind of clyster or enema known as a glister-pipe.—The feather of the Prince of Wales is also shown there, viz. on the preceding page. And note that Edward the eldest son of Edward King of England bore a similar feather above his crest, and he obtained the feather from the King of Bohemia, whom he killed at Cressy in France. And so he took the feather which is called an 'ostrich feather,' which that most noble Lord King had used hitherto to bear above his crest. And in that year when our Lord the strenuous and warlike Prince departed to God, I wrote this little book of mine with my own hand, viz. in the year one thousand three hundred and seventy-six. And our Lord Edward the Prince died on the sixth June on Trinity Sunday at Westminster during the great Parliament, and may God assoil him, for he was the very flower of chivalry, without peer in the world."¹

¹ "Rhagades curare non possumus nisi medicinis infra anum inferamus aut in clystere aut modo suppositorii quia medicinæ exterius appositæ parum vel nihil prosunt, unde primo oportet cum corrosivis operare ad mundificationem et postea cum consolidantibus et desiccantibus ut prædictum est capitulo de hæmorrhoid. infra anum latentibus ubi nastare depingitur et penna Principis Wallie, viz. folio precedente. Et nota quod talem pennam albam portabat Edwardus primogenitus filius Edwardi Regis Angliæ, super crestam suam. Et illam pennam acquisivit de rege Boemo, quem interfecit apud Cresse in Francia. Et sic assumpsit sibi illam pennam que dicitur 'Ostrich fether,' quam prius Dominus Rex nobilissimus portebat super crestam suam et eodem anno quo

This passage is omitted from the English translation which is here printed (Sloane 6), as well as from the later and different English translation (Sloane 76), which are often merely abstracts of what Arderne wrote. But it is present in the Latin texts (Sloane MSS. 56, leaf 74; 335, leaf 68; 2002, leaf 333; 176, back; 29301, leaf 42, col. 157; in MS. 1153, leaf 41, in Trin. Coll. Camb.; and in the MS. No. 339 in the Hunterian Library at Glasgow, leaf 77).

It was from the last MS., which was then called Sloane 2, that Thomas Hearn copied it in the "*Chronici Walteri Hemingford.*"¹ In each case it is a part of the text, and is written by the same hand as the rest of the manuscript. The scribes have not copied from each other, and there is very little doubt in my own mind that Arderne wrote it originally, and that it contains the story current in his day about the source of the feather, and Arderne was in a position to obtain the story at first hand. Incidentally it bears out an interesting point, for it says that both the King of Bohemia and the Prince of Wales bore the feather *above* his crest, not *as* his crest, so that it was used in exactly the same manner as was the Garter at first, viz. as an ornament to be worn at jousts or tournaments.² It only became a crest in later years, and so long as it was a mere ornament or distinguishing badge there was no need for it to be associated with a motto; indeed, in each of Arderne's figures the scroll placed upon the quill of the feather, which is single, is left blank instead of being charged. This use of the ostrich feather as an ornament at jousts further explains the passage in the Black Prince's will, in which he desired that his corpse should be taken through the City of Canterbury as far as the Priory, and that "two war horses, covered with our Arms and two men armed in our Arms and in our crests," should precede his corpse; that is to say, "the one for War, with our entire Arms quarterly, and the other for Peace, with our Badge of Ostrich Feathers," with four banners of the same suite.³

Dominus strenuus et bellicosus Princeps migravit ad Dominum, scripsi libellum istum manu propriâ, viz. anno Millesimo cccclxxvi. Et Dominus Edwardus princeps obiit vi Idus Junii, viz. die Sanctæ Trinitatis, apud Westmonasterium in magno parlamento, quem Deus absolvat, quia fuit flos Miliciæ Mundi sino pare. Nastare species est clysteris sive enematis 'a glister pipe.'

¹ Vol. 2, pp. 444, 446, in note.

² "Observations on the Institution of the Most Noble Order of the Garter, by Sir Nicholas Harris Nicolas." "*Archæologia*," vol. 31, p. 130.

³ "On the Badge and Mottoes of the Prince of Wales," vol. 3. "*Archæologia*," vol. 31, p. 356.

"Et volons qe a quele heure qe notre corps soit amenez parmy la ville de Cantirbirie tantq'a la priorie, q'deux destres covertz de nos armes, et deuz homes

The directions for making Nerbone plaister (p. 91) show the difficulties in reckoning small subdivisions of time. Arderne directs that the melted diachylon should be allowed to stand without moving by the space of a "pater noster" and an "ave maria." I asked a patient recently, the Mother Superior of a Convent, how long it would take to repeat these prayers, and she replied about three quarters of a minute. When I next saw her, after she had spent a sleepless night with a clock in front of her, she said that the question had interested her, and she found that a pater and an ave took exactly half a minute. Dr. Norman Moore draws attention ("The Progress of Medicine at St. Bartholomew's Hospital," 1888, p. 13) to a similar method employed by John Mirfeld, a Canon of the priory of St. Bartholomew, who wrote a general treatise on medicine—*Breviarium Bartholomei*—about the year 1380. He says, "Mirfeld treated chronic rheumatism by rubbing the part with olive oil. This was to be prepared with ceremony. It was to be put into a clean vessel while the preparer made the sign of the cross and said the Lord's Prayer and an Ave Maria, and when the vessel was put to the fire the Psalm, 'Why do the heathen rage,' was to be said as far as the verse 'Desire of me, and I shall give thee the heathen for thine inheritance.' The Gloria, Pater Noster, and Ave Maria are to be said, and the whole gone through seven times. 'Which done let that oil be kept.'" . . . "The time occupied I have tried," says Dr. Norman Moore, "and found to be a quarter of an hour."

The charm against Cramp (p. 102) was obtained from one who was at Milan when Lionel, Duke of Clarence, married Violante, the daughter of Galeazzo Visconti, at the door of the Cathedral, on June 5th, 1368. Five months of continuous jousts, feasts and revels were followed by the inevitable consequences of delirium tremens and epileptiform convulsions.

The sober testimony to the profligacy of the times given in the receipt for making confection of Sanguis Veneris (p. 89) is the natural outcome of the conditions described in Dr. Furnivall's "Early English Meals and Manners" (Early English Text Society, Original Series, No. 32). The boys and girls of the upper classes were transferred

arme; en nos arme; et en nos heaumes voient devant dit n're corps, c'est assavoir l'un pur la guerre de no; arme; entiers quartelle; , at l'autre pur la paix de no; bages des plumes d'ostrace, ove quarter baneres de mesme la sute, et qe chacun de ceaux q'porteront les dite; baneres ait sur sa teste un chapeau de no; armes." "Nichols's Royal Wills," p. 68. See also "Notes and Queries," Series ii, 1861, vol. xi, pp. 224 and 294.

from their own homes to be educated in the houses of the nobility as pages and maids of honour. They were well fed, spent their lives in a round of pleasure, and were often badly looked after.

The account of juniper shows that Arderne knew London and its neighbourhood and talked with the countryfolk as he went amongst them. He says, "Juniper grows in Kent upon Shooter's Hill on the road to Canterbury, at Dorking also in Surrey as well as in many other places in that County, at Bedington too near Croydon, and the inhabitants of that country call it *gorst* because they do not know its proper name."¹ The Black Death does not seem to have left much impression upon Arderne's mind, because, like most contemporary medical writers, he only mentions it incidentally, and what we look upon as an appalling visitation had already faded from his mind, and its impression had been replaced by more recent epidemics.

Arderne lived through the most chivalrous period of English history, and in all probability he knew personally many of the peerless knights and splendid champions who survive for ever in the pages of Froissart. To have known such men was in itself an education, and to have lived in the household of Henry, Duke of Lancaster, and of John of Gaunt was sufficient to make Arderne the best type of an English surgeon—a scholar and a gentleman. The chivalry of the age is well brought out in the extant manuscripts of Arderne's treatises. In some cases he mentions the names of the patients, but in many instances he tricks their coat-armour instead of giving names, and thus some early shields are preserved, amongst others that of the great Douglas.

Arderne left a few traces on the sands of time, but very few. Johannis Argentin, a physician at Cambridge, wrote a treatise, which still remains in the Bodleian Library as Ashmol. MS. No. 1437. Tanner² thinks that it was written about 1476. He mentions Arderne no less than eleven times, and copies his style, especially his manner of quoting cases in illustration of his various subjects.

Arderne's fame as a pharmacist long outlasted his reputation as a surgeon. *Tapsimel* (p. 31), *Pulvis sine pari* (pp. 26 and 86), *Tapsivalencia* (p. 69), and the valences of *Scabious* and *Wormwood* (p. 97),

¹ "Et crescat in cancia super Scheteres hylde in viâ versus cantuariam, apud Dorkyng, eciam in Soberay et eciam in aliis pluribus illius provincie, crescit eciam apud Bedyngton iuxta Croyden quam incole patrie illius vocant *gorst*, quia proprium nomen illius ignorant." (MS. Digby 161, leaf 23, in the Bodleian Library, Oxford.)

² "Bibliotheca," p. 48.

remained until the time of the first Pharmacopœia, 1618. Dr. Alleyne¹ speaks thus of them:—

“ Powers of Scabious, Valentinia Scabiosa. —Take of the juice of green Scabious, pressed out and strained through a cloth, and of Hog’s lard cleared of its membranes, each as much as you please. Let the Lard be beat in a stone mortar, and the juice poured in by little at a time, for the conveniency of mixture, and giving its tincture; and then put them together into a proper vessel, to be exposed to the sun, and so that the juice may cover the lard; after nine days put them again into the mortar as before, and throw away that thin and discoloured humidity, which separates upon beating, without rubbing them together; and again put into its vessel for five days. And afterwards beat it again and by little at a time, mix with it fresh juice of scabious, and after a fresh insolation of fifteen days in its proper vessel in the Sun, let it be cleared as before of its watery humidity. Let it then stand again in the same manner for fifteen days longer with fresh juice, and after a little beating let it be kept for use in a glass or earthen vessel. This, we are told by the first compilers of the College Dispensatory, was the contrivance of John Arden, an experienced surgeon at Newark in Nottinghamshire, who lived in the reign of Edward III. After insertion of this, which they had from an ancient manuscript, they particularly direct to repeat the processes with fresh juice till the Lard looks of a deep green; and that is made the measure of the repetition necessary. The powers and honey of Mullein were from the same author, and almost three hundred years ago were in great esteem amongst the surgeons of our own country, though they have now been long in disuse.”

“ The Powers of Mullein; Tapsi Valentinia. —Take of the juice of Mullen and of Hog’s lard, each as much as you please; let the Lard be cleansed of its membranes and fibres, and broke into small parcels; then beat it with the expressed juice, press out and strain as directed in the preceding process. Let it afterwards be put into a proper vessel for nine or ten days, and then be twice more impregnated with fresh juice until it is quite green. Lastly, after all the humidity that will separate is poured off, beat it again briskly, and put it by in a proper manner for use.”

The first contriver of these processes, as appears from the first edition of the College Dispensatory, directs the medicines thus made to be fresh beat once in a month.

¹ “A New English Dispensatory,” 1733, p. 336.

"*Honey of Mullen; Tapsimel.*—Take of the juice of Celandine and one part Mullen, of despumated Honey two parts; boil gradually till the juices are evaporated, adding thereto, if the Operator pleases, calcined Vitriol and Alum with Copperas, and again boil secundum artem."

The first College Dispensatory adds from the Author, that "if occasion requires this should be at last boiled up to a pretty thick consistence; and says that it will certainly cure itchings in any part of the body, and is a most noble ointment. But it seems the present Practice hath not faith enough to rely upon it for anything, for neither this nor the foregoing are ever prescribed or made. However, it hath been thought fit to continue such extraordinary discoveries still upon record for the sake of any that may think proper to make trial with them."

It is my pleasant duty, in conclusion, to thank those who have given me much help in the preparation of this volume. First, to Dr. Warner, the Keeper of Manuscripts, who allowed me to study the Sloane MSS. at the British Museum in comfort in the room which is doing duty as the large room; secondly, to Mr. L. Galbraith, who afforded me similar facilities in the University Library at Glasgow; and, lastly, to Mr. Falconer Madan, who made me feel at home in the Bodleian. Lieut.-Col. Walter D. McCaw, Surgeon of the United States Army, responded kindly, promptly and fully to my questions about the only manuscript of Arderne which Dr. Harvey Cushing of Baltimore has been able to obtain tidings of in America. Miss Evaline G. Parker at Oxford, and Miss Margaret E. Thompson in London, have helped me by transcribing obscure passages which I was quite unable to decipher; whilst my friend, Mr. J. H. Noble, has assisted me with the heraldry of the various MSS., a subject of much interest, which I hope some day to consider in greater detail. My obligations to Mr. S. Armitage-Smith are great; and I have endeavoured to show my appreciation of the interest which Dr. Frank Payne has always taken in Arderne, and the help I have received by dedicating to him this edition of his treatises. I have tried to make the text literally accurate, and to elucidate it by such notes as were needed to explain to myself the various difficulties which occurred in reading it. No one can be more conscious of the defects in the notes than myself, but the work has been a labour of love, and if they

seem extremely bad it must be remembered that, after all, I am but a surgeon, whose business in life is to act and not to write.

BIBLIOGRAPHY.

The following table shows the manuscripts which I have examined personally at the British Museum, and in Oxford, Cambridge and Glasgow. There is said to be a French version in Paris and a Latin one at Stockholm, but I have not yet been able to obtain any information about them: there is a manuscript in Washington and another in Dublin.

Arderne issued his writings in the form of treatises, written in Latin, and with his own hand. These treatises were afterwards collected and were sometimes translated. The manuscripts therefore contain different combinations. The collection here printed is one of the more usual groups, but the translator has not rendered the whole of the last part on the preparation of various remedies. It is given in greater detail in the Ashmole MS. 1434 in the Bodleian Library.

MANUSCRIPTS OF JOHN OF ARDERNE IN THE VARIOUS LIBRARIES.

I. PRACTICA DE FISTULA IN ANO, &c.

- Sæc. xiv.* Brit. Museum, Sloane MSS. No. 341, ff. 41-69 b.
 " " " No. 3844, ff. 2-16 b.
 " " " No. 3548, ff. 65-88.
 " University Library, Glasgow, No. 339.
- Sæc. xiv-xv.* University Library, Glasgow, No. 112, ff. 38-98.
 " Surgeon-General's Lib., Washington, U.S.A., ff. 41-138.
- Sæc. xv.* Brit. Museum, Sloane MSS. No. 6, ff. 141-154 b. [English].
 " " " No. 76, ff. 143 and 144. [English].
 " " " No. 238, ff. 99-214.
 " " " No. 277, ff. 60 b.-75 b. [English].
 " " " No. 347, ff. 122-240.
 " " " No. 563, ff. 63-121 b. [English].
 " " " No. 795, ff. 96 b.-163 b.
 " " " No. 2002, ff. 1-180.
 " " " No. 2122, ff. 10-32.
 " " " No. 29301, ff. 22-32 b.
 " " " No. 8093, ff. 140-174 [English].
 " " Harleian MSS. No. 3371, ff. 13-39 b.
 " " " No. 5401, ff. 34 b.-52.
 " University Library, Glasgow, No. 251, formerly Sloane 2.
 " Bodley's Library, Oxford, Ash. 1434, ff. 11-107.
 " St. John's College, Oxford, No. 132, ff. 68.
 " Emmanuel Coll., Cambridge, No. 69.
 " Royal College of Surgeons, Ireland.
- Sæc. xvi.* Bodley's Library, Oxford, Ash. 829, ff. 76-80 and 81-115.
 " University Library, Glasgow, No. 135.
 " " " " No. 403.
- Sæc. xvii.* Brit. Museum, Sloane MSS. No. 1991, ff. 142-159.
 " Bodley's Library, Oxford, Rawl. No. 355 c.

II. LIBER MEDICINARUM SIVE RECEPTORUM LIBER MEDICINALIUM.

- Sæc. xiv.* Brit. Museum, Sloane MSS. No. 56, ff. 1-100.
 " " " No. 335, ff. 1-78 b.
 " " " No. 341, ff. 1-40 b.
 " " " No. 3548, ff. 26-99.
 " Bodley's Library, Oxford, Digby 161, ff. 16-23 b.
 " St. John's College, Oxford, No. 86, ff. 53.
 " University Library, Glasgow, No. 339, ff. 232.
 " Royal College of Surgeons, Ireland. ? date.

- Sæc. xiv-xv.* University Library, Glasgow, No. 112.
Sæc. xv. Brit. Museum, Sloane MSS. No. 76, ff. 1-143.
 " " " No. 238, ff. 8-96 b.
 " " " No. 347, ff. 2-75.
 " " " No. 795, ff. 20 b.-96 b.
 " " " No. 962, ff. 123 b.-248 b.
 " " " No. 2122, ff. 32-74.
 " " " No. 29301, ff. 3-22, and 32 b.-47 b.
 " Bodley's Library, Oxford, Ash. 1434, ff. 117-131.
 " University Library, Glasgow, No. 251.
 " Caius Coll., Cambridge, No. 219.
 " University Library, Cambridge, No. 292.
 " Trinity Coll., Cambridge, No. 1153, ff. 99 + 3.
 " Emmanuel Coll., Cambridge, No. 69 [English].
Sæc. xvi. Brit. Museum, Sloane MSS. No. 563, ff. 122-129 b.
 " University Library, Glasgow, No. 403.
Sæc. xvii. Brit. Museum, Sloane MSS. No. 1991, ff. 168-224.
 " " " No. 2271 [English].
 " Bodley's Library, Oxford, Rawl. 355 c.
Sæc. xix. Royal College of Surgeons, England. Transcript of E. H.'s
 [Sloane 2271] abstract.

III. COMMENTARY "DE JUDICIIS URINARUM."

- Sæc. xiv.* University Library, Glasgow, No. 328 [English].

IV. HOC EST SPECULUM PHLEBOTOMIÆ.

- Sæc. xiv.* Brit. Museum, Sloane 56, ff. 1-2.
Sæc. xiv-xv. University Library, Glasgow, No. 112.
 " xv. " " " No. 251.
 " " Emmanuel College, Cambridge No. 69 [English].

V. SCALA SANITATIS.

- Sæc. xv.* Brit. Museum, 1080 A, ff. 31 b.-36 b.

[Sloane MS. 6, leaf 141.]

A tretis extracte of Maistre Iohn Arden of fistula in ano and of fistula in oper place; of þe body and of aposteme; makyng fistule; and of emoraide; & tenasmon and of clistere; of certayn oyntemente; poudre; & oyles.

Fistula in ano.

1. Of þe ploge of fistula in ano & of the manere of þe leche & of instrumentis necessary for þe fistle. [p. 1]
2. Of aposteme; in þe lure causyng þe fistul & of þe cure of þam. [p. 11]
3. Of diffinicion of a fistule and place; þat it is bred in & when it is curable or nouȝt. [p. 20]
4. Of a maner of wirchyng in fistul in ano & þe curyng þerof. [p. 21]
5. Of anoþer maner wirchyng in þe same fistule and þe cure wiþ diuerse exemple; [p. 28]
6. Of bubo wiþin þe lure & þe impossibilitie or myche hardnes of þe cure of it. [p. 37]

Fistula in the limbs.

7. Of fistule; in þe fyngers & hardness of cure of it. [p. 42]
8. Of fistule; in þe lawe joyntour of þe fyngers & in þe legges, knees fete & ankles wiþ corruptyng of þe bones and þe hardnes of þe cure of it. [p. 46]
9. Of þe maner of cure of oon þat had þe fistule in þe legges aboue þe ankle. [p. 47]
10. Of þe maner of cure of ane aposteme in þe boȝt of þe knee þat was disposid to þe fistule. [p. 47]
11. Of þe maner of a ful hard cure in bolnyng of al a manne; arme. [p. 49]
12. Of þe maner of a cure of a man þat was smyten on the schyn bone. [p. 51]
13. Of the maner of cure of a man whose legge was sodenly bolned. [p. 52]

Of Mormales.

14. Of maner of mormales & of þe cure of þam. [p. 55]

Of Piles.

15. Of emoraides & of þe cure of þam' [p. 64]

Of Tenesmus.

16. Of þenasmon & rhagade; and of þe cure of þam. [p. 71]

Of Prolapse.

17. Of goyng out of þe lure & þe cure þere-of. [p. 74]

Of Clysters.

18. Of clistere3 and þe maner of þam. [p. 74]

Of Powders.

19. Of þe properte3 of Vitriol. [p. 79]
 20. Of þe properte3 of Alum. [p. 81]
 21. Of þe properte3 of Vertgre3. [p. 82]
 22. Of þe properte3 of arsenic & auripigment. [p. 82]
 23. Of makyng of þem & of þe werchyng. [p. 85]
 24. Of makyng of pulv. sine pari & of þe wirchyng. [p. 86]
 25. Of makyng of sanguis veneris & of þe wirchyng. [p. 89]
 26. Of makyng of salus populi & of þe werchyng. [p. 90]
 27. Of makyng of nerbone & of þe werchyng. [p. 91]

Of Oils and Waters.

28. Of makyng of Olei Seriac. [p. 91]
 29. { Of makyng of Unguentum arabicum.
 Of makyng of tapsimel.
 Of makyng of diastomus. [p. 92]
 30. Of makyng of pulvis grecus. [p. 92]
 31. Of makyng of oyle of roses. [p. 92]
 32. Of makyng of oyle of violette3. [p. 93]
 33. Of makyng of oyle of camamulle. [p. 94]
 34. Of makyng of oyle of mastikk. [p. 95]
 35. Of makyng of oyle of almaunde3. [p. 95]
 36. Of makyng of water of almande3. [p. 95]
 37. Of makyng of oyle of juniper. [p. 96]
 38. Of makyng of ane enoyntment of juniper. [p. 96]
 39. Of makyng of a gode emplastre for þe goute. [p. 96]
 40. Of the properte of walwort & makyng of þe juse & poudre
 of it. [p. 97]

Of Valences.

41. Of makyng of valence of scabious or mattefelon. [p. 97]
 42. Of makyng of valence of wormode. [p. 98]
 43. Of makyng a man slepe without pulvere3 or pille3 or enoy[n]te-
 ment. [p. 100]
 44. Of þe maner of wakyng of hym. [p. 101]



Sloane MS. 2002, leaf 24, back.
PLATE I.—A Master of Surgery in the fourteenth century.

John Arderne's Treatises on Surgery.

[Sloane 6, leaf 141, back.]

Of the ploge of fistula in ano, and of þe
manere of þe leche, and of instrumentis
necessary for þe fistule.

4 [I, I]ohn Arderne fro the first pestilence that was
in the 3ere of oure lord 1349 duellid in Newerk in
Notyngham-shire vnto the 3ere of oure lord 1370, and
ther I helid many men of fistula in ano. Of whiche the
8 first was Sire Adam Eueryngham of laxton-in-the-clay
byside Tukkesford; whiche Sire Adam, forsoth, was in
Gascone with sir Henry, that tyme named Erle of
derby and aftir was made duke of lancastre, a noble and
12 worthi lord. The forsaid sir Adam, forsoth, suffrand
fistulam in ano, made for to aske counsel at aȝ the lecheȝ
and cirurgienȝ that he myȝt fynde in Gascone, at Bur-
deux, at Briggerac, Tolows, and Neyrbon, and Peyters,
16 and many other places. And all forsoke hym for vncur-
able; whiche y-se and y-herde, þe forseid Adam hastied
for to torne hom to his contre. And when he come
home, he did of al his knyȝtly clothinges and cladde
20 mornyng clothes, in purpose of abydyng dissoluyng, or
lesyng, of his body beyng niȝ to hym. At last I, forseid
Iohn Arderne, y-souȝt and couenant y-made, come to hym
and did my cure to hym and, oure lord beyng mene,¹ I
24 helid hym perfitely within half a 3ere; and aftirward,
hole and sounde, he ledde a glad lif by 30 3ere and more,
ffor whiche cure I gatte myche honour and louyng purȝ
al ynglond. And the forseid duke of lancastre and many
28 othir gentileȝ wondred ther-of. Aftirward I cured hugon
derlyng of fflowick of Balne by Snaype. Aftirward I

Sir Adam de
Eueryng-
ham
Arderne's
first patient.

He had lost
all hope of
recovery,

but lived in
health and
strength
from about
1346 until
1387 after an
operation.

¹ Domino
mediaute.

Patients
cured by
Arderne,

knights and
priests,

merchants
and friars.

[* leaf 142]

Arderne
gives the
glory to God
and humbles
himself.

cured Iohn Schefeld of Brixtwell a-side Tekyll. Aftir-
ward I cured sir Reynald Grey, lord of Wilton in Waleȝ
and lord of Schirlond biside Chesterfelde, whiche asked
counsel at the most famos leches of yngland, and none 4
availed hym. Aftirward I cured sir Henry Blakborne,
clerk, Tresorer of the lord Prince of Waleȝ. Aftirward I
cured Adam Oumfray of Shelforde byside Notyngham,
and sir Iohn, preste of the same toun; and Iohn of 8
holle of Shirlande; and Sir Thomas hamelden, *parson*e
of langare in the Vale of Beuare. Aftirward I curid frere
Thomas Gunny, custode of the frere Mynours of ȝorke.
Aftirward, in the ȝere of oure lord 1370, I come to.12
london, and ther I cured Iohn Colyn, Mair of North-
ampton, that asked counsel at many lecheȝ. Aftirward
I helid or cured Hew Denny, ffishmanger of london,
in Briggestrete; and William Polle, and Raufe Double; 16
and oon that was called Thomas Broune, that had 15
holes by whiche went out wynde with egestious odour;
that is to sey, 8 holeȝ of the to[ne] party of the crse,
and 7 on the tothir side; Of whiche some holeȝ was 20
distant fro the towell by the space of the handbrede of a
man, so that bothe his buttokis was so vlcerat and
putrefied with-in that the quitour and filthe went out ich
day als mych as an egg-shel miȝt take. Afterward *I 24
cured 4 frereȝ prechours, that is to sey frere Iohn Writell,
frere Iohn haket, frere Petre Browne, frere Thomas
Apperley, and a ȝong man called Thomas Voke. Of
whiche forseid som had only on hol y-distaunte fro the 28
towel by oon ynche, or by two, or by thre. And other[s]
had 4 or 5 holeȝ procedyng to the codde of the testicleȝ;
And many other maners of whiche the tellyng war ful
hard. All thise forseid cured I afore the makyng of this 32
boke. Oure lord Ihesu y-blessid God knoweth that I lye
not, and therefore no man dout of this, þof al old famous
men and ful clere in studie haue confessed tham that
thei fande nat the wey of curacion in this case. ffor god, 36
that is deler or rewarder of wisdom, hath hid many thingis
fro wise men and slize whiche he vouchesaf aftirward for
to shewe to symple men. Therefore al men þat ar to
come aftirward witte thai that old maistrez war noȝt 40

bisie ne pertinace; in sekyng and serchyng of this forseid
 cure. But for thai miȝt noȝt take the hardnes of it at the
 first frount, thei kest it vtterly byhinde þair bak. Of
 4 whiche, forsoþ, som demed it holy for to be incurable;
 oper applied doutful opinions. Therfore for-als-miche
 in hard thingis it spedith to studiers for to perseuere and
 abide, and for to turne subtilly thair wittes. ffor it is opned
 8 not to þam that ar passand but to tham þat ar perseuer-
 and.¹ Therfore to the honour of god almyȝti that hath
 opned witte to me that I shuld fynde tresour hidde in the
 felde of studiers that long tyme and [with] pantyng breest
 12 I haue swette and trauailed ful bisily and pertinacely in
 diuanudiis.² As my faculte sufficeþ without fair spekyng
 of endityng, I haue brouȝt for to shew it openly to tham
 that cometh aftur, our lord beyng me[ne] and this boke.
 16 Noȝt that I shewe myself more worthi of louyng of suche
 a gifte than other, but that I greue not god, and for the
 dragme that he hath giften to me that I be not constreyned
 for treson. Therfore I pray that the grace of the holy
 20 gost be to this werke, that he vouch-saf for to spede it;
 that tho thingis whiche in wrokyng trewly I am ofte
 tymes experte, I may plenerly explaine tham in this litel
 boke. And this I sey that I know noȝt in al my tyme,
 24 ne hard not in al my tyme, of any man, nouþer in
 yngland ne in partieȝ biȝond þe see, that kouthe cure
 fistula in ano; outake a frere minour that was with the
 prince of Waleȝ in gascon & gyan, whiche rosed & bosted
 28 hym that he had cured the forseid sekenes. And at
 london he deceyued many men; and when he miȝt noȝt
 cure som man, he made suggestion to tham that no man
 miȝt cure tham, and that affermed he with sweryng that
 32 ȝif the fistule war dried, that the pacient at the next shuld
 noȝt eschape dethe; whiche, forsoþe, y-lefte & forsake of
 hym I cured perfetely. And to remoue false opinions of
 ignorant men, for witnes I putte experience. Auicen,
 36 forsoþ, seiþ, 'experience ouercomeþ reson'; and galien
 in pantegni seiþ, 'No man *ow for to trust in reson
 al-oon but ȝit it be proued of experience.' And he seiþ
 in anoþer place, 'Experience without reson is feble, &
 40 so is reson withoute experience fest vnto hym.' Neþer-

The old
 masters in
 surgery
 neglected
 cases of
 fistula,

1 non tran-
 seuntibus
 sed persever-
 antibus pul-
 santibus
 aperitur.

2 "diu
 auidius"
 says the best
 Latin text.

but Arderne
 devoted
 himself
 specially to
 their study,
 and fears to
 hide his
 talent in a
 napkin
 (Matt. xxv.
 14-20).

No one in
 England or
 abroad
 undertakes
 cases of
 fistula
 except one
 minorite in
 the retinue
 of the Black
 Prince, and
 he is a fraud.

Avicenna's
 opinion of
 the value of
 practice and
 theory.

[* leaf 142
 back]

Arderne
recognises
that some
fistulae are
incurable.

The qualities
required in
a good
surgeon :
piety,

charity,

modesty,

wariness,

gravity,

careful in
the company
he keeps ;

studious,

sober,

not
gluttonous,

nor cynical ;

lesse I afferme noȝt that I miȝt hele al fistulae in ano. ffor
som ben vncurable as it shal be seid [more fully]¹ within
when I shal trete of tham. ffirst it bihoueth hym that
wil profite in this crafte that he sette god afore euermore in 4
all his werkis, and euermore calle mekely with hert and
mouth his help ; and som tyme visite of his wynnynȝis
poure men aftir his myȝt, that thai by thair prayers may
gete hym grace of the holy goste. And that he be noȝt 8
y-founden temerarie or bosteful in his seyingis or in his
dedes ; and abstene he hym fro moche speche, and most
among grete men ; and answere he sleizly to thingis
y-asked, that he be noȝt y-take in his wordes. fforsoth 12
ȝif his werkes be oft tyme knowen for to discorde fro his
wordes and his byhestis, he shal be halden more vnworthi,
and he shal blemmyssh his oone gode fame. Wherefore
seip a versifiour, ‘vincat opus verbum, minuit iactantia 16
famam’ ; ‘lat werke ouercome thi worde, for boste
lesseneȝ gode lose.’ Also be a leche noȝt mich laughlyng
ne mich playing. And als moche as he may withoute
harne fle he ȝe felawshippe of knafes and of vnu[n]jeste 20
persones. And be he euermore occupied in thingis that
biholdith to his crafte ; outhir rede he, or studie he, or
write or pray he ; for the excercyse of bokes worshippeȝ
a leche. ffor why ; he shal boȝ byholden and he shal 24
be more wise. And aboue al pise it profiteth to hym
that he be founden euermore sobre ; ffor dronkenneȝ
destroyeth al vertu and bringith it to not, as seith a wise
man, ‘Ebrietas frangit quicquid sapiencia tangit’ : ‘Dron- 28
kenes breketh what-so wisdom toucheth.’ Be he content
in strange places of metes and drinkes ȝe y-founden,
vsyng mesure in al thingis. ffor the wise man seith,
‘Sicut ad omne quod est mensuram ponere prodest, Sic 32
sine mensura deperit omne quod est’ : ‘As it profiteth to
putte mesure to al thing that is, So without mesure
perissheȝ all ȝing pat is.’ Skorne he no man. ffor of
that it is seid, ‘Deridens alios non inderisus abibit’ : ‘He 36
that skorneȝ other men shal not go away vnskorned.’
ȝif ther be made speche to hym of any leche, nouthir
sette he hym at nouȝt ne preise hym to mich or com-
mende hym, but thus may he curteysly answere ; ‘I haue 40

1 “Plinius”
says the
Latin text.

1 "non habeo de eo veram notitiam" says the Latin version.

2 in domibus magnatum.

3 aut pubem.

4 colloquia mala.

5 nimis severus nec nimis familiaris sed in gestu mediocris secundum exigentiam personarum.

6 et si viderit patientem attentius curam pronequi.

nozt vrey knowleche of hym,¹ but I lerned nozt ne I haue not herd of hym but gode and honeste.' And of this shal honour and thankyngis of eche party encesse and multi-
 4 plie to hym; aftur this, honour is in the honorant & nozt in the honored. Considere he nozt ouer openly the lady or the douzters or oper fair wymmen in gret meynes² [houses] ne profre tham nozt to kisse, ne touche not
 8 priuely ne apertely thair pappes, ne thair handes, ne thair share,³ that he renne nozt into the indignacion of the lord ne of noon of his. In as moche as he may, greue he no seruant, but *gete he thair loue and thair gode wille.
 12 Abstene he hym fro harlotrie als wele in wordes as in dedes in euery place, for 3if he vse hym to harlotery in priue places som tyme in opene place ther may falle to hym vnworship of yuel vsage; aftir pat it is seyde,
 16 'Pede super colles pedes vbi pedere nolles.' 'ffart vpon hille3 and thou shalt fart whar thou wolde nozt agayn thi wille3.' And it is seid in ano^{per} place, 'Shrewed speche⁴ corrupith gode maners.' When seke men, forsoth, or
 20 any of tham bysyde comeþ to the leche to aske help or counsel of hym, be he nozt to tham ouer felle ne ouer homely, but mene in beryng aftir the askyngis of the persone3⁵; to som reuerently, to som comonly. ffor after
 24 wise men, Ouer moche homelynes bredeþ dispisyng. Also it spedeth pat he haue semyng excusacions that he may not incline to pair askyngis, without harmyng or without indignacion of som gret man or frende, or for
 28 necessarie occupacion. Or feyne he hym hurt, or for to be seke, or som other couenable cause by whiche he may likely be excused. Therfor, 3if he will fauoure to any mannes askyng, make he couenant for his trauaile, and
 32 take it byforehande3. But avise þe leche hym-self wele that he giffe no certayn answer in any cause, but he se first þe sikenes and the maner of it; and whan he hap seen and assaied it, þof-al hym seme that the seke may
 36 be heled, neþerlesse he shal make pronosticacion to þe pacient þe perile3 to come 3if the cure be differred. And 3if he se þe pacient persewe bisily the cure,⁶ þan after that þe state of þe pacient askep aske he boldly more
 40 or lesse; but euer be he warre of scarce askyngis, ffor

courteous, and not jealous of other leeches;

continent,

friendly to servants, [^{*} leaf 143]

chaste;

easy of address, neither too rough nor too familiar

not too ready to undertake a case, and always to see it before giving advice;

to have a clear understanding about the fee before operating.

The cost
of an
operation.

Prognosis as
regards the
duration of
cure and the
reasons
thereof.

[* leaf 143,
back]
The leech to
be dressed
soberly,

to be clean
in his
person,

to cultivate
silence.

ouer scarce askyngis setteþ at not both þe markette
and the thing. Therfore for the cure of fistula in
ano, when it is curable, aske he competently, of a
worthi man and a gret an hundred marke or fourty 4
pounde, wiþ robeþ and feeþ¹ of an hundred shilling
terme of lyfe by 3ere. Of lesse men fourty pounde, or
fourty marke aske he without feeþ; And take he nozt
lesse þan an hundred shillingis. ffor neuer in all my lyf 8
toke I lesse than an hundred shilling for cure of that
sekenes. Neþerlesse do another man as hym þink better
and more spedefulle. And 3if the pacientes or thair
frendez or seruauzt aske by how moche tyme he hopeth 12
to hele it, euermore lat the leche byhete þe double þat
he supposeth to spede by half; that is 3if the leche hope
to hele þe pacient by twenty wekes—that is the comon
course of curyng—adde he so many ouer. ffor it is better 16
that the terme be lengthed þan the cure. ffor prolonga-
cion of the cure giffeþ cause of dispairyng to the paciente;
when triste to the leche is moste hope of helthe. And
3if the pacient considere or wondre or aske why that he 20
putte hym so long a tyme of curyng, siþe þat he heled
hym by the half, answeze he that it was for that the
pacient was strong-herted, and suffrid wele sharp þingis,
and that he was of gode complexion and hadde able flesshe 24
to hele; & feyne he othir causes pleseable to the pacient,
ffor pacienteþ of syche wordez are proude and delited. Also
dispose a leche *hym that in clothes and othir apparalyngis
be he honeste, nozt likkenyng hymself in apparalyng or 28
berying to mynistralleþ, but in clothing and beryng shew
he the maner of clerkes. ffor why; it semeth any dis-
crete man y-cladde with clerkis clothing for to occupie
gentil mezneþ bordeþ. ¶ Haue the leche also clene handes 32
and wele shapen naileþ & clensed fro all blaknes and filthe.
And be he curtaise at lordeþ bordeþ, and displese he nozt
in wordes or dedes to the gastes syttyng by; here he many
þingis but speke he but fewe. ¶ For a wise man seith, 36
'It semeth more to vse the eres than þe tunge'; And in
an-ope place, '3if thou had bene stille thou had bene
holden a philosophe.' And whan he shal speke, be the
wordeþ short, and, als mich as he may, faire and resonable 40

¹ cum robis
et feodis.

¹ dupliciter
sermo.

and not to
be foul-
mouthed
or lying.

He should
have a store
of comfort-
able sayings.

² Si mens
vestra
appetat
quod
demulcat,
prius bibite
quod dolet
et sic per
amarum
poculum
confectionis
peruenitur
ad gaudia
salutis.

The effect
of mind on
body.

and withoute sweryng. ¶ Be war that ther be neuer
founden double worde¹ in his mouthe, ffor 3if he be
founden trew in his wordes ffewe or noon shal doute in
4 his dede3. Lere also a 3ong leche gode prouerbez per-
tenyng to his crafte in counfortyng of paciente3. ¶ Or
3if pacientes pleyne that ther medicynes bene bitter or
sharp or sich other, than shal the leche sey to the pacient
8 thus; "It is redde in the last lesson of matyns of the
natiuite of oure lord that oure lorde Ihesus criste come
into this world for the helthe of mannes kynd to the
maner of a gode leche and wise. And when he cometh
12 to the seke man he sheweth hym medicynes, som lizt
and som hard; and he seiþ to the seke man, '3if pou
wilt be made hole pise and pise shal thou tak.' ¶ Also
in another place in an omely vpon the gospel of the sone3
16 of Zebedee, wher per moder askid seying, 'lord, sey þat
my two sones sitte in thy kyngdome, þe tone on þi ri3t
hand and the toper on the left.' And Ihesus answeryng
seide, '3e wote neuer what 3e aske'; þan seid he to the
20 sone3 of Zebedee, 'May 3e drink þe chalice þat I am to
drink?' þai seid to him, 'We may'; as 3if he seid to
þam, '3if 3oure soule or mynd couaite þat deliteþ,
drinke þe first þat soroweþ or akeþ.' And so by bitter
24 drinkis of confection it is come to the ioyes of helpe."²
Ouer that hym ow to comforte þe pacient in monysshying
hym that in anguisshe3 he be of gret hert. ffor gret hert
makeþ a man hardy and strong to suffre sharp þingis
28 and greuou3: And it is a gret vertue and an happy, ffor
Boecius seiþ, De disciplina scolarium, 'He is no3t worþi of
þe poynt of swetnes that kan no3t be lymed with greu-
yng of bitternes. ffor why; a strong medicine answerith
32 to a strong sekene3.' And þeron seiþ a wise man, 'Be
no cure sene heuy or greuou3 to the to whiche foloweþ
ane heleful effecte.' ¶ And in anoper place it is seid,
'happy or blessid be þat day þat ordeyneþ mery 3eres.'
36 And anoper seith, 'he may neuer be in reste of body þat
is oute of reste of soule; I wil suffre lesse þingis þat I
suffre no3t more greuou3.' It semeþ a gret herted man
for to suffre sharp þingis; he, forsop, þat is wayke of
40 hert is no3t in way of curacion, ffor *why; for-sope in al

my lyf I haue sene but fewe laborante in pis vice heled
 in any sikenes: þerfore it is to be-war to wise men þat
 þei entremette noȝt with sich. ffor whi; þe wise man
 seiþ, 'All pinges ar hard to a waik hert man, for þai 4
 trow euermore yuelleȝ to be nyȝe to þam; þei drede
 euermore, þai suffre no pingis, þai are euermore vnstable
 and vnwise; þerfore a versifiour seiþ of tham, 'Quominus¹
 nil pacior paciendi me tenet horror': þat is þof-al I 8
 suffre no-þing, vgglynes of suffryng holdeth me. ¶ Also
 it spedeth þat a leche kunne talke of gode taleȝ and of
 honest that may make þe pacientes to laugh, as wele of the
 biblee as of other tragedieȝ; & any othir pingis of which it 12
 is noȝt to charge whileȝ þat þey make or induce a lizt hert
 to þe pacient or þe sike man. ¶ Discouer neuer the leche
 vnwarly the counselleȝ of his pacientez, als wele of men as
 of wymmen, ne² sette noȝt oon to anoper at noȝt, þof-al 16
 he haue cause, þat he be noȝt gilty of counsell; ffor ȝif a
 man se þe hele wele anoper mannes counsel he wil trist
 better in þe. Many pinges, forsoþe, bene to be kepte
 of a leche, wipoute þese þat ar seid afore, þat may noȝt 20
 be noted here for ouer moche occupying. But it is noȝt
 to dout þat if þe forseid be wele kepte þat-ne þai shal
 giffe a gracious going to þe vser to þe hize of worship
 and of wyunnyng³; for Caton seiþ, 'Virtutem primam puta 24
 esse compescere linguam': The first vertu trow you to be
 to refreyne þe tong. Aftur al þise it houeth that he
 knowe þe names of þe instrumentis þat perteneth to þe
 cure of þe fistule, withoute whiche a leche may noȝt wele 28
 spede hym. Of whiche þe first is called 'Sequere me'
 —'follow me'—whose shap is shewed wher þe instrumentez
 ar paynted [fig. 1]. And it is called 'Sequere me' for it
 is þe first instrument pertenyng to þat werk; for a lech 32
 ow for to serche þer-with þe way of þe fistule whider it
 goþ, wheþer by þe middeȝ of longaon or noȝt. And it
 ow to be made on þe same maner as wymmen vseþ in
 þair heuedeȝ,⁴ and of þe same metal; and it ow to be 36
 smal þat it may liztly be plied & replied. And be þe
 heuedeȝ⁵ als little as þai may wele be, elleȝ þai miȝt noȝt
 wele entere þe moup of þe fistule for þe streitnes of it.

¹ Quamvis.

The leech
 should have
 also a good
 stock of
 merry tales,

and should
 most strictly
 keep his own
 counsel
 about the
 patient.

The names
 of the
 instruments
 used in the
 operation
 for fistula:

the probe,

³ quia ea
 exercenti
 ad culmen
 honoris et
 lucis aditum
 præbeant
 generosum.

⁴ in capiti-
 bus.

⁵ capita.

- ffor why ; oft tyme3 fistule in ano hath riȝt smale hole3,
so pat som tyme þai shew noȝt but þat per appereth
bolnyng in þe moupes of þam. Afterward is per
4 anoper instrument, þat is called 'Acus rostrata,' a the grooved
director,
snowted nedle, for it hath þe tone heued like a snowte,
and in þe toper an yȝe like a nedel by whiche þredes
ow to be drawn agayn by middeȝ of þe fistule, as it shal
8 be seid within in his place. And it ow to be of siluer, as
it is paynted ; and it ow to be no gretter ne lenger in þe
snowte þan as it is paynted, but it ow to be longer atte
þe left, þat it contene in al 8 ynches in lengþe.¹ ¶ Þe
12 prid instrument is called 'tendiculum,' and it ow to be the dilator,
made of boxe or of anopir competent tree, nouper
lenger ne gretter þan his shap is paynted. And it
ow to haue an hole þurgh in þe side, as it is peynted, the peg.
16 In whiche hole be þer putte *² in a wrayst,³ by middeȝ [* leaf 144,
back]
of whiche wraiste in þe ouer ende shal be a litel hole
þurgh whiche shal be putte þe two endeȝ of grete þrede
four folde, goyng atte firste by þe towel⁴ and þe hole of
20 þe fistule ; whiche þrede is called ffrenum cesaris, and
the whiche also goyng atuyx þe wraiste, in wraistying þe
skynne atuyx þe tewel & þe fistule be faste constreyned
aboue þe snowte of þe nedel, vnto þat kittyng be done.
24 'Siringa' is an holow instrument by þe middeȝ, and it the
"Syringe."
ow to be made of the shappe as it is peynted here,
nouper gretter ne lenger, but euen after þe shappe as it
is peynted here ; ne haue it noȝt but oon hole in þe neper
28 ende or smaller ende, as it is peynted here [see p. 10,
Plates II and III].

² The words from here to the end of this page are reproduced in facsimile in Plate III.

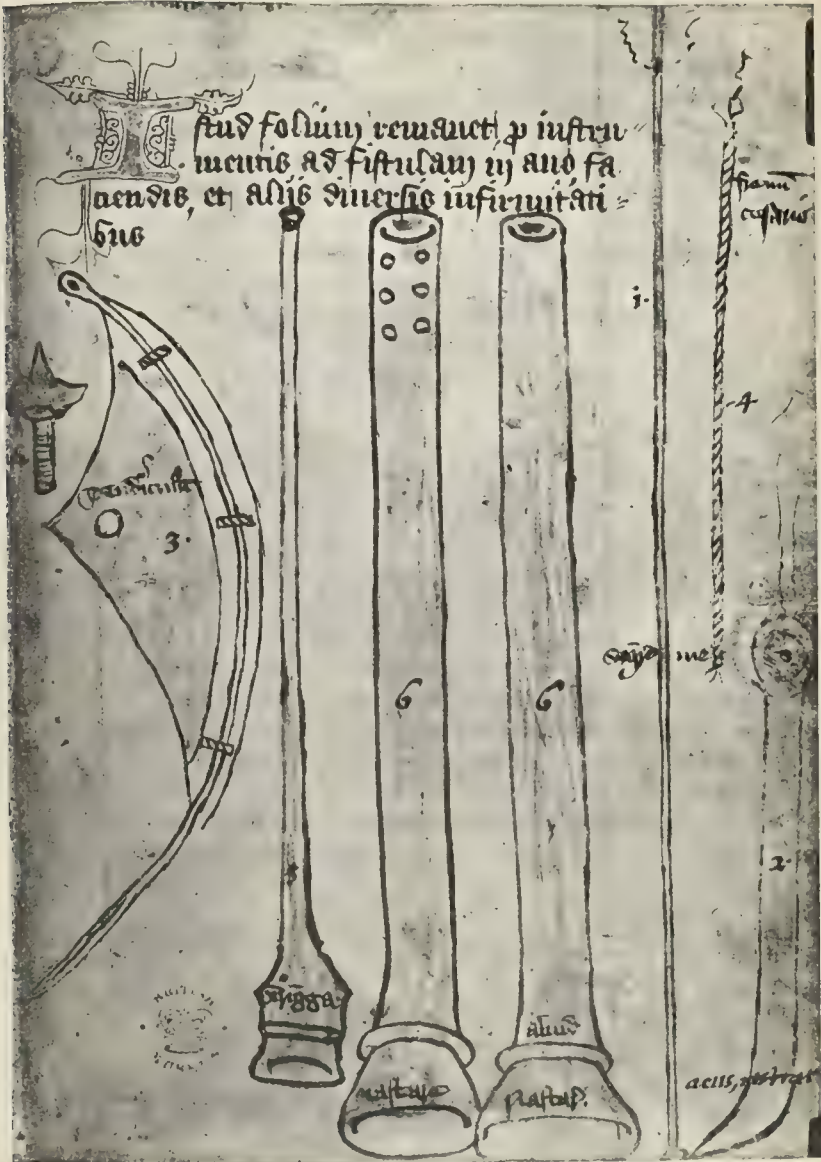
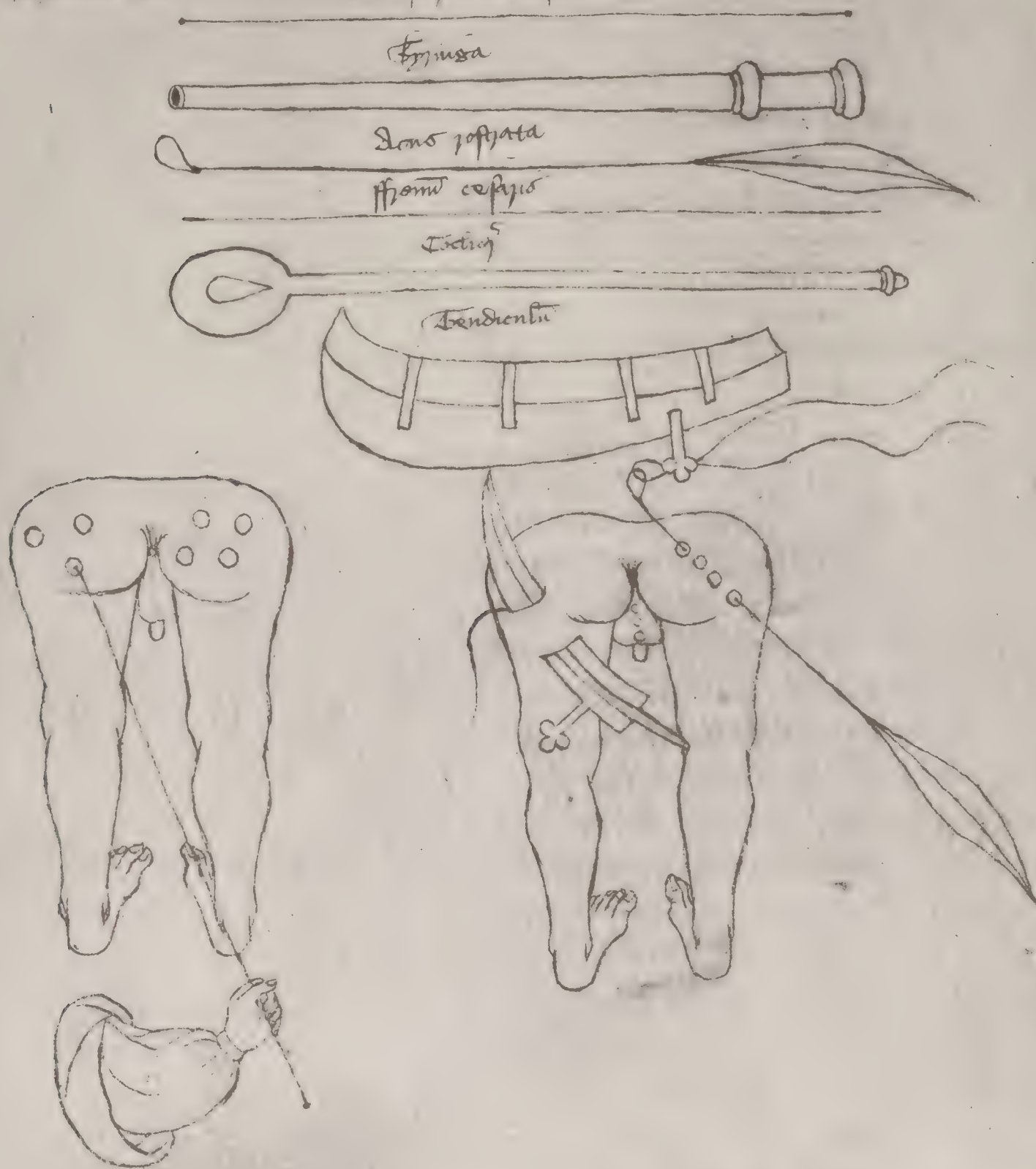


PLATE II.—The instruments used by John Arderne in the cure of fistula.

- (1) The probe—sequare me; (2) The snouted needle—acus rostrata; (3) The dilator—tendiculum; (4) The strong thread—Frænum Cæsaris; (5) The peg—vertile—fitting into the hole in the wide part of the tendiculum; (6) The syringe in general use with lateral openings; (6a) Arderne's modification of the syringe with a terminal opening only. [From Sloane MS. 2002, leaf 24.]

in a trayst by myddes of whiche trayste in pe ouer ende shal be a litel hole. yurgh
 whiche shal be putte pe tbo endez of grete prede four folde goyns atte firste by pe
 tassel and pe hole of pe fistule. whiche prede is called *ffrenu cesar* is, and the
 whiche also goyns aturx pe trayste in traystyns pe skynne a tuxx pe tassel it
 pe fistule be faste constreyned aboue pe quorbte of pe nedel vnto pat luttyn be
 done. *Sirrua* is an holoth instrument by pe myddes and it oold to be made of the
 shappe as it is peynted here. nouy gretter ne lenger. but euen aft^r pe shappe as it is
 peynted here ne haue it nozt but oon hole in pe ney ende oz smaller ende as it
 is peynted here.

Exquy me oz proba





Of þe apostemeȝ in þe lure causyng þe fistule, [leaf 145]
and þe cure of tham.

2. [T]hof-al þe principal entent was for to trete de
4 fistula in ano, Neperles it spedep first for to touche som-
what of aposteme bredyng þer-in or nize,¹ siþe oft tyme
apostemeȝ bredyng þer bene cause of fistule or of cancre.
ffor, after auctours, Aposteme y-bred in any place of þe
8 body, if it be not y-helid by þre or four monepes, it is
turned into a fistule or a cancre. Therefore when ther
falleth ane aposteme in þe lure or nize¹ þou shalt knowe
it by þese signes; þat is by bolnyng, akyng, bryzynyng,
12 þekyng & prikkying.² And the pacient for akyng and
anguissh may nouþer sitte ne ligge ne slepe. Whiche
apperyng, ffirst it is to labour to þe slakyng or esyng of
the akyng and brennyng and of oper accidentez without
16 repercussione. ffor in þe lure ow noȝt to be repercussion,
siþe it is ane emunctory, and in emunctoriez ow it noȝt to
be done; þese bene emunctoriez:—þe armeholes, þe
peholes, þe chawelleȝ,³ &c. And witte þou after
20 Gilbertyne þat ane aposteme beyng within þe lure is
cured with þe infusion of oyle roset in which is ceruse
distempred, or led brent, or litarge, or all pise if þai be
hadde, or with þe ȝolk of an ey. And he be euermore
24 warre of paynyng of egestion. And ȝif his wombe be
costyue⁴ be it softned þat þe hardnes of þe ordure bryng
noȝt in anguissh in egestion doying. And be it softned
with ane emplastre of maluez & swynes grese; Or with
28 water of decoccioun of maluez and branne, with oyle or
butter fressh, or suche other, and be it ȝette in by a
clistrye. Therefore take oyle roset and medle it with þe
ȝolke of a rawe ey in euen porcion. Aftir putte it in a
32 little bleddere, þan take a Nastar of tree⁵ and putte it in
þe bladder and hynde it aboute wip a strong prede, and
enoynt þe for ende wele with oyle roset, and softly putte
it in þe lure and presse þat is in þe bleddre with þi
36 fyngres in-to þe lure. þis, forsope, swageþ and
softenep þe bryzynyng, þe prikkying, smertyng &
akyng, and confortep þe membre in boþe cause,⁶ þat is

ischio-rectal
abscess a
common
cause of fis-
tula.

Signs of an
ischio-rectal
abscess.

Gilbertyn's
treatment
with litharge
and rose oil.

A plaster
of mallows
and pork fat
is good if
injected
through a
glyster pipe.

¹ vel exterius
prope anum.

² per
tumorem et
dolorem,
ardorem
atque
pruritem et
puncturam.

³ "axillæ
inguinae et
fauces," says
the Latin
text.

⁴ etsi venter
constipetur.

⁵ tunc
accipe unum
instru-
mentum
ligneum,
coccavum
per medium,
quod
Nastare
ligneum
vocat.

⁶ in omnibus
membris
corporis.

bope in hote and colde. ffor, after auctores, Oile roset
 coldeþ ane hote membre and hoteþ ane colde membre¹;
 and it doþ many oper profiteþ pere and in al pe
 membres of þe body. And þerfore a gode leche þuruey² 4
 hym þat he want neuer oyle roset, siþe þer procedeþ of
 it many helpyngis to mannes body; for why; after Galien
 to euery akyng hote oile roset is mytigatif. Vpon þe
 aposteme, forsoþe, vtward be putte a gode emplastre and 8
 riȝt maturatif of diaquilon resolute with oile roset, or oile
 of liliez, or of camamill, or dialtred,³ or comon oyle, þat is
 oyle of olyue, or swyne grese, or gandles,⁴ or maulerdes,⁵
 or hennes grese. ffor whi; diaquilon þus y-ordeyned and 12
 put-to matureþ colde materieþ & resolueþ & mollifieþ
 hard materies. Also be þer made suche a vntment þat is
 riȝt mitigatiue. Recipe: tame comon malueþ⁶ M. i. or M. ij,
 & brisse þam in a morter, and put þam in a quart of 16
 oyle of olyueþ and lat þam putrifie þerin 7 dayes or 9.
 After boile þam long at þe fire vnto þe oile be wele
 grene; after cole it and *kepe it: þis oyntment is ryȝt
 mitigatiue of akyng of apostemeþ, and mollifieþ þan if it 20
 be put vpon [tham] hote with lana succida. Lana succida
 is wolle þat groweth atuiþ þe leggeþ of ane ewe about þe
 vlder, ful of swet,⁷ noȝt y-wasshe, and it opneþ strongly
 and consumeth; oyle, forsoþe, of properte holdeþ opne 24
 and draweth and swageþ akyng. If, forsoþ, þou haue
 noȝt lanam succidam þan dippe a lyn clout in þe forseid
 oyntement and putte it hotte vpon and bynde it warly
 þat it fal not away. Also ane emplastre of þe forseid 28
 malueþ is a ful gode maturatif and mitigatif of akyng in
 apostemeþ of þe lure and of wynnmenþ pappeþ, and to al
 oper apostemeþ þat nedep maturacion. And it is made
 þus. Recipe: malueþ tame M. i. or ij; seþe þam in 32
 watir to þai wax softe, þan put þam out of þe watre
 and presse oute þe watre of þam, and aftir lakke þam
 small wiþ a sharp knyfe on a clene borde; þan frye þam
 in a panne ouer þe fire with comon oyle or butter or 36
 swynes grese, Or, if þe pacient be riche or noble, with
 som of þe forseid oileþ. And aftir vpon clene stuppes be
 it put on þe aposteme. And witte þou here þat if þou
 may haue wormed it profiteþ mich in curyng if it be 40

A prescrip-
 tion for a
 soothing
 ointment.

[* leaf 145,
 back]

Lana suc-
 cida what
 it is

Prescrip-
 tion for an
 ointment for
 an abscess of
 the breast.

1 oleum ros.
 membrum
 supercales-
 cens infrigi-
 dat et super
 infrigidatum
 calefecit.

2 "provi-
 deat."

3 dialthæa.

4 anatis.
 5 mallardes.

6 "Malvas
 domesticas
 communes."

7 sudore
 imbuta.

Nota.
 Pappis [of]
 women.

soden & made wip þe forseid maluez, for þat emplastre
 is best mitigatiue of akyng of pappes, & bryngþ in
 quytour and confortþ þe place, and makeþ þe mater
 4 for to vapour by þe pore3. And for certeyn it auaileþ
 in al aposteme3 in euery place of þe body, and also in
 many brissure3. With þis emplastre in cures of pappes I
 haue y-gette many worshippe3 and benefetes, for certaynly
 8 it is soueraynly mitigatyue. But witte þou after all
 auctours—and I haue proued it for certayn experience—
 þat ane aposteme bredyng nere þe lure owe not to abide
 to it breste by itself, but þe leche owe bisily for to fele
 12 wip his fynger þe place of the aposteme, and wher-so is
 founden any softenes, *per*, þe pacient nozt witting, warly,
 be it boldely opned wip a ful sharp lancette, þat þe
 quitour and þe corrupte blode may gone oute. Or elle3,
 16 forsoþe þe gutte or parme þat is called longaon, þat
 deserueþ to þe lure, shal be bristen wip-in þe lure, and
 presed byfore þat þe aposteme be bristen withoute-forþe.
 Whiche case byfallyng, if it al-oonly brest within it is of
 20 hard cure, and þan shal *per* be ragadie3 or frousingez,
 fforsoþ if it briste boþe *within* and *with-out*, þan may
 it neuer be cured but by a ful experte cirurgien in his
 crafte. ffor than may it þe firste day be called a fistule;
 24 siþe a fistule is nozt elle3 þan ane vlcus vndesic cable,
 and for it is vndesic cable, *perfore* by consequens it is
 vncurable, siþe no wonde ne vlcus may be heled but if
 it may be dried. Som tyme it bifalleth som men for to
 28 haue ane hole apperyng outward al-oonly, *persyng* þur3
 þe longaon *within* þe lure by þe space of ane ynche
 or of tuo, and bisyde þat anoþer hole *with-out*, nozt
persyng þe longaon *with-in-forþ*. And I haue sene som
 32 haue 7 or 9 hole3 on þe tone party of þe buttokkis, and
 6 or 5 on þe toþer party, of whiche noon of þam,
 outake oon, *persed* longaon. And I haue sene som haue
 2 or 3 hole3 on þe buttokke, and 2 or 3 descendyng
 36 *doun into þe codde of þe testicule3. And I haue sene
 som haue oon hole or many in þe tone buttok, and oon
 or tuo on þe party of þe 3erde *persyng* als wele longaon
 as þe 3erde. And in þis case, as by my demyng, sich
 40 pacientes bene vncurable, and þat for fistulyng of þe

Arderne has
 used this
 ointment
 with benefit
 in many
 cases.

An ischio-
 rectal
 abscess
 should not
 be allowed
 to burst,
 but should
 be opened
 as soon as
 it softens,

otherwise
 chronic
 ulceration
 and fistula
 may follow,

for a fistula
 is only an
 ulcer that
 cannot be
 dried up.

The results
 of a fistula.
 [* leaf 116]

Arderne
cured a
priest of a
urethral
abscess at
Master
Geoffrey
Scrope's
house in
Lincoln.

Urethral
fistulæ are
sometimes
associated
with uræmic
symptoms.

which
Bernard de
Gordon
teaches are
due to a
connection
between the
muscles of
the pelvic
floor, the
stomach,
and the
brain.

zerde. And þat may be knowen, for som-tyme þe sperme goþ oute by þe hole of þe zerde infistulate, and som-tyme vryne or bothe. Neþerlesse I cured a preste, at lincolne in þe house of Maistre Giffrey Scrope, þat 4 had apostome in his zerde, of whiche als wele vryne as quitour come doune into his codde, and somtyme blode went oute by þe hole of þe zerde, and his testicules war bolned out of mesure. Therefore, first, I putte on his 8 testicule; oon oyntement ruptorie, and I made an hole by whiche went out bothe vryne and quitour; þis i-do, þer shewed ane bolnyng vnderneþe in þe zerde riȝt be þe lure, whiche I opned wiþ a ruptorie; whiche y-opned, 12 þer went out boþe quitour and vryne. Whom y-cured perfiteley, oure lord beyng mene¹; but for certeyne his lure & longaon war vnhurt. And witte þou þat þis cure was ful hard. þerfore in suche þingis be a leche avised 16 and discrete. Also a leche owe to be circumspecte in his askyngis, þat he enquere bisily of þe pacient if he fele ony tyme ventositeȝ or egestionȝ go out by þe holes of þe fistule. Also enquere he of þe pacient ȝif he fele 20 any heuynes or greuounes in his heued; Or if it appere to hym þat þe house some-tyme is turned vp-so-doune² as it shuld falle, and þe pacient may noȝt for drede of fallyng enclyne to þe erthe; And if þe pacient fele 24 akyng and heuynes or greuounes in his lendeȝ³ and feblenes in his stomake. Also sey he to þe pacient þus: 'I wote þat þe kynde of þe fistule is soche þat somtyme it is opned by itself and putteþ out quitour, 28 somtyme pikke and somtyme þynne, somtyme watery and somtyme bloody. And somtyme it is closed be itself, & so by a moneþ or more þer rennep no-þing out; and eft-soneȝ it bigynneþ to ake or þat it caste out quitour. 32 And aftirward it is opned by itself, and rennep as it is seid afore, and aftirward it is sperred.'⁴ ffor suche pronosticacions sheweþ and tokneth. to þe pacient þat þe leche is experte in þe knowyng of þe fistule, and so þe 36 pacient wil better trist vnto hym. And witte þou, aftir Bernard of Gordon, þat þe synoweȝ closyng and openyng þe lure haþe festnyng with þe stomake and wiþ þe ventriculeȝ of þe brayne, And for this cause suche 40

¹ Domino
mediante.

² ut si
apparet ei
quod domus
subver-
tatur.

³ "et si
sentiat
gravitatem
in lumbis."

⁴ et postea
clauditur.

¹ in capite.

paciente; ar som tyme vexed in þe heued¹ and in þe stomak. When þe leche, forsoþe, haþ talked þus to þe pacient, as it is seid, and þe pacient aske & persew
4 for to be cured of hym, aske þan first þe siȝt of þe sekenes; Whiche y-sene, be þe leche war pat he put noȝt his fynger in þe lure of þe pacient, ne shewe no pryue instrumente; wher-of þe pacient myȝt wonder or
8 be aferd; or if perauenture þe pacient haue wilyly broȝt in with hym any leche for to aspye, as I haue oft tyme sene. But considere þe leche bisily þe maner of þe fistule, & perceyue if it be curable. Ȝit² a leche ow for

The method of operating not to be revealed to the patient or to his leech.

² Nihil-
ominus.

12 * to feyne perile; and hardenes of curyng, and for to make pronosticacions wilely þat þe sikenes askeþ long tyme of curyng, for þat þat þe medicyne; y-putte to may not abyde long for purgyng of þe wombe, and for moche
16 moystenes goyng out of þe lure, and for many oþif lettyngis, as for þe lure is to streyte, or þe buttokkes be to grete or hard, or for þe pacient is waike of herte or vnobedient for to persew his cure or for to kepe his diete, and
20 for many oþer þat hym ow for to feyne on his owne heued þat he supposeth be necessarye.³ And þise pronosticated, if þe pacient stond stedfastly þat he be cured, or aske if he may be cured, þan sey þe leche þus: 'I dout noȝt,

[* leaf 146, back]

Questions to be answered before operating on a fistula.

³ que debet capite proprio ligere que sibi constiterit fore necessaria.

24 oure lord beyng mene,⁴ and þi gode pacience folowyng, ȝif þou wilt competently make satisfaccion to me, as sich a cure—noȝt litle to be commended—askeþ, þat ne þingis y-kept þat ow to be kepte, and y-lefte þat ow
28 to be lefte, as it is seyde, I shal mow bryng þis cure to a loueable ende and heleful.' And þan acorde pay of couenant, of whiche couenaunt—al excusacione y-put abak—take he þe half byfore hande;⁵ And þan assigne

The prognosis of an operation.

Arrangements for the payment of the fee.

⁵ Quo peracto medium pretii prae manibus capiat omni excusatione proposita.

32 a day to þe pacient when he will bygygne. In þe mene tyme, forsoþe, ordeyne þe leche redy his medicynes and his instrumentis; þat is to sey þat he haue fyrst two spongiez or þre at þe lest, & a rasour or a ful sharp
36 launcet, and oþer instrumentis named afore, as Sequere me, Acum rostratam, Tendiculum; And silke predes, and lyn cloutes, and girdellez, and oþer þat ar seid afore and to be seid here-after. Haue he also redy a medicyne
40 restrictyue of blode, and warne or leuke watre, and all

Preparations for the operation.

Choice of
a day for
operating.

opir necesarie3, þat no-þing wante þat the leche may nede in his wirchyng. And ouer al this it is best & most sikir þat he kutte noȝt in þe lure ne do no violence ne greuounes to it in þe tyme þat þe mone is in Scorpion, 4 or Libra, or sagittarius, for þan of astronomye3 is forbode per kuttyng. ffor as wille souerayne astronomie3 and astrologiens, þat is to sey Ptholomeus,¹ Pictagoras,² Rasis, and Haly, &c. A cyrurgien ow noȝt for to kutte or brenne 8 in any membre of a mannes body, ne do fleobotomye whiles þe mone is in a signe gouernyng or tokenyng þat membre.³

¹ Ptol-
meus,
² Pythag-
oras.

³ The Latin texts contain a chapter headed

Nota de cognitione signorum Luna.

12

A method
for finding
the position
of the moon
on any given
day by
means of
the calendar
and the
table.

Si quis scire et invenire voluerit in quo signo celi fuerit Luna omni die, primo sciat signum in quo Luna soli conjungatur et diem conjunctionis per kalendarium. Quo invento tunc scias quod ab illa hora diei vel noctis in qua fuerit conjunctio usque 16 ad talem horam diei sequentis completur, prima dies Lune. Postea computa quot sunt dies ab imprimatione prædicta usque ad diem de quo queris in kalenderio. Tunc videndum est in tabula precedente ubi invenitur numerus ille. Quo invento, queratur 20 in superiori capite tabulæ sub quo signo Luna fuerit pr^{ma} sub quo recte descendens transeas donec directe perveneas ad signum correspondens Linealiter numero ætatis Lunæ predictæ, et in illo signo existit Luna eodem die. Et nota quod in ista computatione dies 24 naturalis ad meridiem diei incipit secundum Astronomos. Qui, igitur, de tempore certificari voluerit tabulam sequentem de 12 signis discat et agnoscat; sic, incipit Aries, Taurus, Cancer, Virgo, &c. 28

[The Table given on pages 18, 19 follows here in Latin Text.]

The best
astrologers
declare that
no opera-
tion, not
even bleed-
ing, should
be under-
taken whilst
the moon is
in the sign
governing
the part to
be operated
upon.

Sicunt volunt Astrologi summi videlicet Ptolomæus, Pythagoras, Rhasis, Haly, &c., non debet cirugus incidere vel urere in aliquo membro corporis humani nec facere phlebotomiam dum Luna fuerit in signo regnante illud membrum. Nam secundum est quod 32 12 signa zodiaci regunt 12 partes humani corporis prout patet in imagine predicta, ubi aries quod est signum igneum temperate sic- cum caput regit cum suis contentis. Luna vero in ariete existente cave ab incisione in capite et facie et [ne] incidas venam capitalem. 36 Luna vero in tauro existente, cave ab incisione colli vel gutturis, nec incidas venam in his locis. Luna existente in g^{minis} cave ab incisione spatularum brachiorum et manuum nec aperias venam in his locis. Luna existente in cancro cave ab incisione in 40 mammis vel pectore aut stomacho, et a læsione pulmonis, nec incidas arteriam seu venam ad ipsam directionem. Luna existente

Luna in can-
cro bonum /
Luna in

leone indif-
ferens /
Luna in vir-
gine indif-
ferens /
Luna in
libra bo-
num /
Luna in
Scorpione
malum /
Luna in
sagittario
bonum /
Luna in
Capricorn :
malum /
L. in Aquar. 12
malum /
Luna in
pisce bo-
num /

in leone cave a læsione laterum, costarum et ne incidas in dorso neque per apertionem neque per ventosam. Luna existente in virgine cave in ventre aut in locis interioribus occultis, nec minuas
4 matricem mulierum deservientem. Luna existente in libra cave ne umbilico aut in natis et hanc [in ano] nec in renibus, nec venam renibus servientem aperias, nec ventosam apponas. Luna existente in scorpione cave testiculorum, virgæ virilis, colli vesicæ,
8 nec aperias venam testiculorum deservientem nec ventosam apponas. Luna in sagittario existente cave ab incisione femorum nec incidas maculas vel superfluitates quascunque in corpore humano existentes. Luna existente in Capricorno cave in genibus et a læsione venarum
12 et nervorum in his locis. Luna existente in aquario cave ne incidis in tibiis aut in nervis earum a genibus usque ad inferiora cavi-
larum. Luna vero existente in pisce cave in pedibus, nec venam aperias in eorum extremitatibus.¹

A note on the recognition of the Signs of the Moon.

- 16 If any one wishes to know and to discover in which sign of the heaven the moon is on any day, he must first discover in the almanac the sign in which the Moon is in conjunction with the Sun and the day of the conjunction. When this is found you know
20 the first day of the moon because it is from that hour of the day or night when the conjunction occurs to the same hour of the next day. Then calculate by the almanac the number of days from the new moon thus obtained to the day you want. Look next in the
24 previous table where the number is found, and when it is found look in the upper line of the table for the sign in which the moon is. Coming straight down from this you cross until you come directly to the sign corresponding lineally with the number
28 of the age of the moon, and this gives the sign of the moon on that day. And note that in this calculation the natural day begins at midday according to the Astronomers. If any one wishes therefore to be sure of the time let him learn and under-
32 stand the following table of the 12 signs. It begins thus—Aries, Taurus, Cancer, Virgo, &c.

The influ-
ence of the
Moon on the
body.

To ascertain
the house of
the Moon.

[The table is given on pp. 18 and 19.]

- The highest Astrologers, viz. : Ptolomy, Pythagoras, Rhasis, Haly, &c., aver that a surgeon ought not to cut or to cauterise any
36 member of the human body nor to breathe a vein so long as the moon is in the house ruling that member. For the 12 signs of the Zodiac rule the twelve parts of the human body, as is clear from the aforementioned drawing, where Aries, which is a fiery sign
40 moderately dry, governs the head with its contents. But when the moon is in Aries beware of operating upon the head or face and do not open one of the head veins. When the moon is in Taurus refrain from operating upon the neck or throat and do not
44 bleed from a vein in these parts. When the moon is in Gemini beware of operating on the shoulders, arms or hands, and do not

The influ-
ence of the
Moon in
surgery.

¹ Supplied from Rawlinson, C 355, in the Bodleian Library.

Libra	Scorpio	Sagittarius	Capricorn.	Aquarius	Pisces	Aries	Taurus	Gemini	Cancer	Leo	Virgo
Scorpio	Sagittarius	Capricorn.	Aquarius	Pisces	Aries	Taurus	Gemini	Cancer	Leo	Virgo	Libra
Sagittarius	Capricorn.	Aquarius	Pisces	Aries	Taurus	Gemini	Cancer	Leo	Virgo	Libra	Scorpio
Capricorn.	Aquarius	Pisces	Aries	Taurus	Gemini	Cancer	Leo	Virgo	Libra	Scorpio	Sagittarius
Aquarius	Pisces	Aries	Taurus	Gemini	Cancer	Leo	Virgo	Libra	Scorpio	Sagittarius	Capricorn.
Pisces	Aries	Taurus	Gemini	Cancer	Leo	Virgo	Libra	Scorpio	Sagittarius	Aquarius	Pisces
Aries	Taurus	Gemini	Cancer	Leo	Virgo	Libra	Scorpio	Sagittarius	Aquarius	Pisces	Aries
Taurus	Gemini	Cancer	Leo	Virgo	Libra	Scorpio	Sagittarius	Aquarius	Pisces	Aries	Libra

14
15

16
17

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The influence of the Moon in surgery.

open a vein in these parts. When the moon is in Cancer refrain from operating upon the breasts or chest or stomach and from injuring the lungs, neither open an artery or a vein in their neighbourhood. When the moon is in Leo take care not to injure the 4 flanks or the ribs, and do not operate upon the back either by cutting or by cupping. When the moon is in Virgo take care not to operate upon the belly or the internal parts, and do not bleed from the veins supplying the womb in women. When 8 the moon is in Libra refrain from operating upon the navel or upon the buttocks or upon the kidneys, and do not open the vein supplying the kidneys, nor apply a cup. When the moon is in Scorpio refrain from operating upon the testicles, the penis and 12 the neck of the bladder; do not open the testicular vein and do not apply a cup. When the moon is in Sagittarius do not operate upon the thighs, do not remove spots or superfluous parts occurring in any part of the human body. When the moon is in Capricornus 16 refrain from the knees and from injuring the veins and nerves in these parts. When the moon is in Aquarius do not operate upon the legs or upon their nerves from the knees to the bottom of the calves. When the moon is in Pisces do not operate upon the feet 20 and do not open the vein in their extremities.

Of diffinicion of a fistule, and places þat it is bred in, and when it is curable or noȝt.

Definition of a fistula.

[N]ow it is to procede to þe curyng of þe fistule. 24 And aftir auctours of cirurgie, a fistule is a depe aposteme, hauyng oonly oon hole somtyme, and ofte-tymes two or þre, and oftymes mo, and bredyng in eche membre of þe body of aposteme or of a wounde yuel y-cured, 28 giffyng out quitour of diuerse colour and of diuerse substaunce; þat is to sey now white and pinne, now watrye, now as wasshyng of flesshe þat is rawe, now clotty; somtyme myche stynkyng, somtyme litle. And 32 somtyme þe holes ar closed be þam-self, and aftir a fourtenizt or a moneþ, akyng goyng afore in þe place, þai ar eft-sones opned. And when sicke maner fistules is bredde in þe armes or in the brest, or in þe costes, or 36 in þe pies, or in þe knees, or in þe legges, or in þe fete, or in þe hende, or in þe ioyntours [*of¹ þise, þat it corruppeþ oft-tyme þe boneȝ and þai ycorrupte ar oft tymeȝ put out by þe holeȝ of þe fistule. ¶ Bot fistuleȝ of 40

Various kinds of discharge.

Fistulæ may heal and afterwards re-open.

[*Sloane MS. 277, leaf 66, col. 1]

Prognosis of fistulæ.

¹ The MS. Sloane 6 is defective here. The missing folios are supplied from another English version, Sloane 277, made early in the fifteenth century.

iuncture; noȝt comyng of outward cause ar called þe
festred
 fistulat gout. And sich fistule; almost bene all vncurable,
 and namely in Wymmen. In 3ong¹ men forsoþ or waxen
 4 men, I hafe seene few euer be cured, out-tak þat I haue
 sene tuiyse or þrise som waxen men by long processe of tyme,
 þurȝ benefice of nature, be cured of þe fistula in þe legges
 and in þe fete; þat is to sey in þe seuent ȝere or fourtent
 8 or two and twenty fro þe tyme þat þe fistule come to þam.
 And þat miȝt be for, after Ypocras, alle sekenez ouþer is
 termyned after þe mouyng of þe mone or of þe son. ¶ If
 it be after þe mouyng of þe mone. so it is terminated in þe
 12 fourtent day, which is endyng of acuteȝ sekenez and
 bygynnyng of croneceȝ.

Festred
 gout
 bad in
 women,
 sometimes
 cured spon-
 taneously in
 young men.

An acute
 illness be-
 comes
 chronic at
 the end of a
 fortnight.

If it be after þe mouyng of þe son þan þe first schal
 be in þe seuent moneȝ or seuent ȝere and so ascendyng
 16 vpward by seuē, &c. * ¶ And witte þou þat al 3ong
 men hauyng sich forseid fistuleȝ, if þai be in febreȝ and
 lene of body, ful seldom abideþ þe fourtent ȝere. To
 which for-soþ noieth most vse of milk and of fruyte and
 20 lichery. ¶ If þe fistule for-soþ be in a fleschy place of
 þe body al-only, it is possible to be cured and þer-for
fistula in ano or bredyng niȝe may wele be cured.

[* leaf 66,
 col. 2]

Milk, fruit
 and lechery
 bad for long-
 standing
 fistulæ.

² dummodo
 tamen nota
 fuerit nimis
 inveterata
 vel profun-
 dior.

Whileȝ neþerlesse it be noȝt ouer olde or depe,² þat may
 24 be knowen by þe hardnes of þe place and discoloryng of
 þe skynne and mich goyng out of þe egestionȝ, and
 febylnez of þe pacient, and if it haue perced þe waiez of
 þe vryne. ¶ þerfor wake ȝe þat couaitise blynde noȝt
 28 þe sizt of ȝour eizen,³ þat it may noȝt deme atuix curable
 and vncurable.

Take care
 not to
 operate for
 the sake of
 the fee only.

³ vigilate
 ergo ne
 cupiditas
 oculorum
 auiem ex-
 teret.

Of a maner of wirchyng in fistula in ano and
 þe curyng þer-of.

32 When for-soþ thou knowez þat he þat haþ fistule
 in þe lure, or niȝ beside, is strong and þe place of
 þe sekenez wele colored and þat the pacient is gode
 herted and abydyng, it is noȝt to drede þat-ne þe lech
 36 schal spede wele in þe cure of it if he be experte.
 ¶ Which perceyued, when þe pacient and þe lech ar

Selection of
 patient.

¹ 3ong written above, olde deleted.

To be taken
to the oper-
ating room.

acorded in al pings, þan be þe pacient ledde to a place
made redy Where þe lech schal do þe mynysteryng of
cure. And all men amoued away out-take one or tuo,
pat þe lech will haue with hym to his helping, ouþer of 4
his owne men or of oper; þan sey þe lech þus to þe
pacient, reward¹ yhadde to þe person of þe pacient.
¶ 'Witte þour gentilnes and þour hiznes, and also þour
godehertynes, pat þe gracious perfeccion * of pis cure ow 8
not only to be recced as now to þe possibilite of my gode
bisynes, bot also to þour gode and abydyng pacience.
¶ And for-alsmich be it noȝt hidde to þow þat if 3e be
vnobedient and vnpacient to my commandyngs, lustyng 12
þe tyme of wirchyng, 3e may falle in-to a ful gret perile
or tary longer þe effecte of þe cure. Therfor beþ-war,
For he þat is warned afore is noȝt bygiled. Paynful
things passeþ sone when at the next folowep glorious 16
helthe.'² ¶ Þise things yseid, be þe pacient putte vp-on
a bedde bfore a lizt Wyndow, and be he putte after þe
maner of þe sekenes þat is if þe holeȝ of þe fistule be
in þe lefte side lye he on þe lefte side. And if þai be 20
in the riȝt side vp-on þe riȝt side, or if þai be to-ward
rigebone³ lie he þan wide opne boþe his leggeȝ or þe
tone raised vp after þat it semeth more spedeful and be
þai hungen vp with a corde or with a towell festned 24
aboue to a balk or a beme. ¶ Þe felaw of þe lech sitte
at þe bakke of þe pacient, aboue on þe bedde þat þe
pacient lieþ in, and hold fast with his handez þe ouer
buttoke in raisyng it vpward þat þe lech may haue gode 28
sizt in his wyrchyng. ¶ þan at first putte the leche þe
schewyng⁴ fynger of his left hande enoynted with oile, or
som oyntment, in-to þe lure of þe pacient. Which ydo
with þe tother hand putte he þe heued of þe instrument 32
þat is called sequare me in-to þe hole of þe fistule
* þat is next to þe lure, if þer be many holeȝ, and assay
bisily on þe fynger beyng in þe lure if he fele with it
the instrument or fynger with-out any ping atuiȝ. 36
Which if byfall witte he with-out dout þat þe longeon
is persed. ¶ And þan witte he for certayn þat it
byhouep noȝt to cure þe pacient with no cure bot cuttyng
with yren, or fretyng with a threde strengely yfestned. 40

Advice to
patient at
[* leaf 67]
time of oper-
ation to be
brave and
obedient.

Patient to
be in a good
light;

position to
be adjusted.

The leech's
mate to be
told what to
do.

The rectum
to be explor-
ed with a
finger. [Cf.
frontispiece]

The fistula
to be deemed
incurable if
the rectum
is perfor-
ated.

¹ habito
respectu ad
personam
patientis;
"sciat
generositas
vestra et
celsitudo
necon
vestra mag-
nanimitas."

² Cito tran-
siebunt
penosa,
cū in prox-
imo salus
succedit
gloriosa.

³ versus
caudam
spinæ dorsæ,
i. e. "rig-
bon" ejus-
dem.

⁴ digitum
manus sinis-
træ . . . qui
index dici-
tur.

[* leaf 67,
col. 2]

¶ If pat hole for-sope be noȝt distant fro þe lure bot by a nynch al-one, þan schal kutting be þe moste kynde and sonest cure; pat if it be so, þan tak þe lech Acum
 4 *rostratam* and putte he þe end hauyng þe eiȝ thurȝ þe hole next to þe lure þe leste fynger yputte, as it is seid, in-to þe lure. And when he felep þe nedle wip his fynger, labor he warly pat he may bring out with his
 8 fynger þe heued of þe instrument purȝ þe lure applyng and wryping. ¶ Whiche ydo, be þer taken a four-fold prede of silk white or of strong lyne or tuyne and it is called *frenum Cesaris*. And be it put in þe eiȝ of þe
 12 nedle And with þat prede anoþer single threde and at oneȝ and to-gidre be þe nedle drawen purȝ þe lure and þe hole of þe fistule. Afterward þe single prede be fest by itself noȝt constreynyng, bot pat it go noȝt out
 16 þe lech noȝt willyng, þar-if *paraurentur frenum cesaris* be kutte or brusten þan schal þer anoþer *frenum cesaris* mow be broȝt in with þe forseid prede with-out any anguisch. ¶ Therfor be þe lech witty in þis wirchyng
 20 þat he may do, and kon do, tuo things þan he fyndeþ in wrytyngs, *For al þings þat ow to be done about sich werk may noȝt be expressed in lettreȝ, and þerfor it by-houep a crafty [lech] to be wise and slyȝe wele ymagynyng
 24 subtile þings, þat in þose þings þat perteneþ to þe perfitenes of þis werk and aboue þo þings þat he has lerned in þis boke he may availe hym purȝ benefice of his ovne witte; For Boecius seith ¶ *De disciplina scolari-*
 28 *um*, He is of moste wreched witte þat euer more vseþ þings yfounden and noȝt things to be founden.¹ ¶ þerfor þe frene and þe prede ydrawen, as it is seid, þan may pou chese wheþer pou will kutte it or fret it with
 32 þe pred. ¶ Iff thou will kutte it þan schalt pou take acum *rostratam* and² putte it purȝ þe middeȝ of þe lengþe of þe instrument þat is called *tendiculum*, byggunnyng at þe gretter ende. After take hope þe endes of *freni cesaris*, drawen purȝ þe middes of þe lure and of þe hole of þe
 36 fistule, and purȝ þe middis of þe hole of þe instrument þat is called *vertile*—a wraiste—. Be þai drawen purȝ, and be þai faste y-knettid in *proportionyng* þe lengþe of þe

Incision to be preferred to the ecceaur.

A pilot thread to be used in case the main ligature should break or be cut.

The directions here given are merely hints [* If, 67, bk., col. 1] which the lech may elaborate if he have the ability.

[leaf 147]

The cure of fistula by cutting.

The use of the ligature.

¹ Sic igitur medicus ingeniosus in hac operatione ut plura quam in scriptis inveniatur agere sciat; quia omnia quae circa tale opus fieri debent non possunt litteris exprimi. Et ideo oportet artificem esse providentem, subtilia bene imaginantem, ut in his quae ad huius operis perfectionem pertinent super ea quae in hoc libello didicerit ingenii beneficio valeat prevalere. Dicit enim Boecius "de disciplina scholarium," "Miserrimi est ingenii qui tantum utitur inventis et inveniendis."

which is to
be tightened
by the
peg.

The end of
the snowted
needle to be
litted into
the hole in
the spoon or
protector to
prevent
injury to the
bowel whilst
the fistula
is being
divided.

Don't try to
do too much
at a time.

The methods
of stopping
the bleeding

by sponge
pressure,

freni cesaris as it bihoueth, þat is after þe distance of þe
hole of þe tendiculi to þe hole of þe fistule; þan take þe
tendicule and putte þe snowte of þe nedle in þe hole of þe
fistule in-puttyng it strongly. Aftirward take þe wraiste 4
wip freno cesaris, and put it in þe hole of þe tendicule,
þat is þe side of it; whiche y-putte in, putte þi fynger in
þe lure, and wip þe toper hand prist faste þe tendicule
with þe snowt toward þy fynger. And when þou see; 8
tyme, be þe wraist turned aboute þat frenum cesaris hold
fast þe tendicule þat it go nozt out. And so labour þe
leche vnto þat he bringe out þe poynt of þe snowte by
þe middes of þe lure; and þat he streyne fast þe 12
flesshe festned in þe frene wip þe wraiste and þe frene.
Whiche y-do, take þe instrument þat is called coclear—
a spone—Of whiche þe holow heued be putte in þe lure
agayn þe poynt of þe snowte, so þat þe poynt of þe 16
snowte stand in þe hole þat is in þe spone, nozt pur;
persed, & be þat halden of þe felaw of þe leche; þis,
forsoþe, shal defende þe lure þat it be nozt hurt, þru;
uncouenable mouyng and sodayn styrryng of þe pacient, 20
wip þe poynt of þe rasour or of þe launcette. As
soon aftirward—þe pacient comforted—putte þe leche þe
poynt of þe rasour in þe holwnes of þe snowte þat is
in þe spone, and, als sone as he may, boldly kutte þe 24
flesshe festened in þe frene aboue þe snowte euen be
þe middes; and it y-kutte by þe middes, þe snowte
wip þe frene shal lepe out by it-self. If, forsoþe, þer
be many holes þat ow to be kuttet, be it done as it is 28
seid. Or if it be nede, differre it to anopir tyme; ffor
in som case þe toper holes beyng outward may be heled
wipoute kuttyng or byndyng of prede. Of whiche it
shal be seid aftirward, þan it is to labour to þe 32
staunchyng of blode. ffirst put a spounge wette in a
litel warme watre and wele wrongen in þe place of the
kuttyng, and hold it þer fast to receyue þe blode, and
lat it abide þer a gode while; þerfore when þou 36
trowest þe sponge to be wele ful of blode, remoue it,
and if it be nede putte agayn anoper sponge, or þe same
ordeyned in þe forseid maner. And when þou hast
doon þus, be þe pacient raised vp warly, and make hym 40

to sitte fast in a redy place vpon þe forseid sponge ;
 and dout not þat ne it shal be wele staunchid. Aftir-
 ward when þou demeȝ dew tyme, be þe pacient put
 4 in a dewe place and þe sponge remoued ; and whepir
 þe blode be staunchid, or noȝt, putte in þe kuttyng
 puluer of boli, sanguis dracon, aloes epaticus, puluer
 of hennes fepereȝ y-brent, or of an old lyn cloþe y-brynt,
 8 asshen of heres of hares y-brent, * Iuyse or puluer of
 walwort, &c., Of whiche it shal be seid aftirward in þair
 place. But witte þou þat it is noȝt required þat al pise
 at ooneȝ and to-gidre be putte to, but I putte þam here
 12 þat a leche, som wantyng or noȝt y-had of þe forseid
 þingis, may competently spede wiþ þe toþer his nedeȝ
 or occupacion. ffor why ; eueriche of þise medicynes
 symply by hymself or medled wiþ þe white of an ey
 16 staunchep wele blode þer and in opir places. But witte
 þou þat to worpi men and noble it semeȝ to putte to
 more noble medicynes and more dere. And witte þou
 þat þe iuse of walwort or puluer of þe same, if it be had
 20 redy, is namely in euery medicine þat is restrictiue of
 blode. How, forsoþe, þe poudre of walwort ow to be
 made, or þe iuse of it to be kepte, it shal be seid aftir-
 ward. þe medicine restrictiue, forsoþe, y-put to wiþ
 24 clene stupes and smal, or wiþ coton wele y-tesed, or wiþ
 heres of hares noȝt y-brent, and with linnen cloutis put
 aboue, be it warly bounden ; þat is to sey be he girded on
 þe bare naked wele streit wiþ a linnen girdel. After-
 28 ward haue he a list of wolnen cloþe, and be it
 bounden byhynd at þe bak of þe pacient to þe linnen
 girdel, and lat it descende atuiȝ his buttokes vpon þe
 cloutes coueryng þe lure, and be it festned fast to þe
 32 girdel vpon þe womb, and lat it abide so stille to þe
 tyme come þat it be eft-sones remoued. If þe holes,
 forsoþe, be in þe buttok somdele remoued fro þe lure,
 þan most it operwise be bounden. And þat þus, haue
 36 þe pacient a wolnen girdel or a linnen, wiþ þe whiche
 he be girded in þe flankeȝ, to þe whiche girdel be hongen
 a linnen cloute hauyng in brede seuen or 8 ynches, and
 in lengþe fals many or mo ; þerfore be þe pacient girded
 40 þat þe side of þe clout next to þe lure lye riȝt atuiȝ

by styptic
powders.

[* leaf 147,
back]

The better
class not to
have too
homely
remedies.

Styptics to
be applied
on small
pieces of
clean linen.

How to
apply the
bandage.

A T-band-
age is best.

A well-
applied
bandage aids
greatly in
the cure.

Remedies to
be used on
the second
or third day
when the
bleeding is
stopped.

Arderne's
own prepar-
ation
"Pulv. sine
pare" to be
used about
the eighth
or ninth day.

[Sloane MS.
277, leaf 68,
col. 1]

The bowels
not to be
moved for
48 hours
after opera-
tion,

[* leaf 68,
back, col. 2]

but the
wound to be
cleansed and
dried after a
motion.

Unguentum
viride a usc-
ful applica-

pe buttokkes upon þe lure; and opir cloutes y-putte
atuix, þan be bounden two listis hyngyng about þe pie
of þe pacient. And if boþe þe buttokkes bene hurt,
ordeyne he anoper girdel to þe toþer, and be it ordeyned 4
as it is seid afore, and on þe same wise. ffor knowe the
leche þat competent byndyng shal giffe noȝt litte help in
curyng. But if medycyneȝ, forsoþ, may cleue to vnto
dew tyme, þe cure shal longer be taried. fforsoþe when 8
pou seest, in þe secound day or þe þrid, þe blode wele
staunched, þan take þe ȝolke of a raw ey, and wip oile
roset or of camomille, or wip sanguis veneris, or, þise
defailyng, distempre it wip comon oile, and put it in a 12
littel bleddre, and wip anastar of tree ich day but oones
be it ȝetted into þe lure, so þat þe wounde be filled
perof. And aftirward put aboue lynnyn stupeȝ kuttet
smal wip shereȝ, and aboue þe stupeȝ a lynnyn cloute. 16
And þan be it bounden as it perteneȝ, and lat it so lye
vnto þe morne. And þis cure ow to be kepte by 8 or 9
dayes; whiche, forsoþe, y-fulfilled, þanne owe þe leche to
putte in þe kutting of my poudre þat I, Iohn Arderne, 20
made, whiche I called 'puluer sine pari,' an[d] on frenssh,
'poudre saunȝ pera.' I wist neuer, forsoþe, ne knew
poudre like to it, Of whiche it shal be seid aftirward in
his place.¹ Aboue þe poudre, forsoþ, put coton or stupeȝ 24
and bynd it. ¶ And so by tuo hole natural daies be it
noȝt moued, bot if voydyng of þe wombe make it²; bot
warne þe lech þe pacient that he dispose hym so þat
he remoue noȝt þe medycyne in any maner in als-mich as 28
he may abstene. Elleȝ þe fruyte and þe vertue with þe
effecte of the medycyne schal be annulled. If þe
pacient for-soþ may noȝt abstene hym fro þe pryue *In
þe mornyng be it clensted with hote watre and a sponge 32
and be it dryed and eft soneȝ be putte in of þe forseid
poudre, And be it ordeyned as on þe day afore. And
ȝitte be he comaunded for to abstene as afore, þat if he do
noȝt eft-soneȝ þe þrid tyme be it ordeyned with þe 36
same poudre as afore, And ȝitte he be amonysched to
abstene. ¶ Afterward wheper he abstene or not, þe
place wele yclenset and dried, be þe lure enoynted with

² nisi ventris
evacuatio
cogerit.

¹ The MS. Sloane 6 is again defective, and the missing folios
are again supplied from Sloane MS. 277.

¹ Nam huius-
modi un-
guentum
omnino
pruritus
"smertyng"
delet et
excoria-
tionem,

² et ut dic-
tum est præ-
paretur.

³ pulvis
gallarum
quercuum.

þe fynger dipped in vnguento viridi hard molten in ane
ostree schell att þe fyre. And on ich aside about the
wounde and within the lure and where-so-euer he seep
4 þe skynne flayne. ¶ For why; þis enoyntment doþe
away alle smertyng and fleyng.¹ And þis enoyntment is
called Salus populi, þe making of which shal be schewed
afterward. ¶ Which enoynted, be þer zetted in as hy-
8 fore with a nastare of tree of þe 3olke of an ey and oile.
And as it is seid in þe place afore, be it repared in al
þings, renewyng eueryday one3 first with þe forseid
oyntment molten in a schell. And be þer zette in with
12 a nastare of tree oile with an ey. ¶ And þis wirchyng
be continued by 9 daies at the lest. ¶ About the twenty
day, forsoth, or 24 or 26, eft-sone3 if pou see nede, þan it
is gode þat pou putte bisily within þe lure of poudre
16 sine pari, and fille þe place of þe fistule within and
without and as it is seid be it redied.² ¶ When forsop
þe wonde is remoued. eft-sone3 as it is seid afore be it
wasched and dried and be it anoynted about with Salus
20 populi And after be caste in by a nastare oyle and þe 3olk
of ane ey And, if þe pacient may abstene hym fro þe
pryue, be it nozt remoued by two daies. * Elle3 forsop
when it is nede be it remoued. And considere þe lech
24 bisily þe wounde ymundified if it be welo trefable and
with-out hardnes and bolnyng and yuel colour: and som
what for to cesse þe superflue moistnes which þe wonde
sent out first. þan witte þe lech þat at þe next he may
28 putte to cicatrizatiues as bene þise, Puluer of alum
zucarín combust, 'bole armenic,' sanguis draconis, Aloe,
mirra, sarcocolla, mee of barley and of beene3, puluer of
galle3 and psidie³ and puluer tanny, gummy arabic, terra
32 sigillata, &c. ¶ Suppose nozt þe lech þat it byhouep
him to haue in one receyte al thise forseid togidre for
þai ar sette here togidre. Bot it is to vnderstand þat
þai ar named here togidre þat a lech know al to be of
36 þe same vertu in regeneracion of flesch an[d] cicatrizacione
and þat þai bene al stiptik. And to þise may be added
ceruse and litarge of gold and of siluer. ¶ Iff þe lech
want any of þem take of þe toper þat he may fynde,
40 For nouþer it byhouep here ne in none oþer place, þat

tion for
chapped
skin.

An enema to
be injected
through a
wooden
clyster pipe.

Treatment
on 24th-26th
day.

[* leaf 60,
col. 1]

The means
to complete
the healing
process.

Many reme-
dies suggest-
ed but only
some to be
used.

The remedies to be applied on soft rags cut into small pieces.

[* leaf 69, col. 2.]
Our author's unguentum arabicum.

The best sign of a cure is that the dressings remain dry.

[leaf 69, bk., col. 1]

Reasons for preferring to cure by liga-

al pings named þat haþ þe same vertue be putte in every confection; bot tuo, or thre, sufficeþ als mich as alle. ¶ Tak þer-for þe lech of þise forseid, tuo, or thre, or foure and medle þam with þe zolk of a raw ey, a litle 4 oile of lynsedde putte to, if it be hadde, or of sanguis veneris or of melle rosat', and with soft stupeþ of lyne kutte smal or with coton. be it putt warly in the wounde, For whi; it clenseth þe wounde and heleþ and dryeþ it wele 8 * for certayne. ¶ Or þou may put to common vnguentum album þat apothecarieþ makeþ, þis neperlesse yknownen afore¹ þat þou ow to medle þer-with poudre of bole armenic' and sanguis dragonis, if þou haue it, and oile 12 roset with watre of rose in which be resolued gumme arabic, and bp it wele ymedled togidre and þerof be putte euery day in þe wounde and about þe wounde with coton. And for certayn it heleth wele nozt only 16 þer bot in euery place of þe body. And pis oyntment wold I neuer want and I calle it vnguentum arabicum of gumme arabic þat entreþ perin and þan schal it be of rede colour. ¶ And witte þou þat with þis 20 oyntment without any oþer medicine, outtake *salus populi* þou may finally hele þe wounde of þe fistule, if þer be in it no ded flesh, no ^{hole} ^{caue} or bolnyng, or hardnez, or blones, or rednes, or any oþer instans þat may be-falle.² 24 ¶ þat if þer be-falle any of þise accidentez why þe wounde may nozt perfiteþ be souted be þer put in of puluis sine pari and it schal bryng in þe desired effecte. ¶ And þis schal be to þe þe tokne of perfite curyng when 28 þou seeþ þe linne clouteþ putte to with þe medicynez to be drye when þou remoueþ þam. And in-als-mych as þai ar more drye in-so-mych þai ar þe better. ¶ And þis sufficeþ of þe kuttyng of þe fistule and of the 32 curyng of it. by þe pings þat thurþ þe bisines of a gode lech and a witty may make þe forseid werk more.³

Of a-noper maner wirchyng in þe same fistule and þe cure wiþ diuerse exempleþ.

If it by falle forsop þat þe fistule be depe and haue grete distance atuix þe hole of þe fistule and þe lure.

¹ hoc tamen priuato.

² livor aut rubor aut aliquid aliud instans quod contingere poterit/

³ Et hæc de incisione fistulæ et ejus iunctione sufficiunt præter ea quæ per industriam boni et ingeniosi medici prædictum opus valent ampliari.

36

Or if þe pacient be ferdful for to suffer kuttyng. Or for
oper notable causeȝ being þer, þan may þe lech *with*
kuttyng of þe prede ydrawen thurȝ þe middeȝ of þe
4 hole of þe fistule and þe lure kutte þe flesch, and þat
availeȝ even to kuttyng with iren, outtake þat it askeȝ
a longer tyme of curyng. For why; þof-al it be bounden
riȝt streitly at þe first tyme ȝitte vnneȝe schal þe fretyng
8 be complete in som men by a moneȝ or thre wekeȝ.

ture rather
than by in-
cision.

The details
of treatment
by ligature.

1 Prosecula
ergo tali
cura et in-
nexionē
debito modo
facta/

2 Cum nodo
currente
Anglice
"large
knot" vel
"slippyng
knot."

3 et cum nas-
tare ligneo
infundatur
in anum de
vitello ovi
crudo cum
oleo ros.
mistum.

¶ Sich cure þerfor ysewed and þe festnyng ydo on dewe
maner,¹ þat is after þat þe pacient may resonably suffre,
puruey þe leche if þe pacient be delicate or feble, or
12 waike of hert, þat þe prede by which þe fistule is
knytte, be so bonden þat if it be nede þat it may
be loused without kuttyng, þat is with a lache knotte or
slyppyng knotte.² ¶ Which ydo, lye þe pacient on a
16 bedde; or stande he or go he by þre oureȝ or 5, or 6,
vnto þat þe payne ycaused of þe byndyng cese somewhat.
And wheȝer þe akyng cese at þe forseid tyme or noȝt,
putte þe pacient on a bedde and with a naister of tree
20 putte into þe lure of þe ȝolk of a raw ey, medled with
oile of rose leuke,³ and be þe lure wele enoyntid
*of þe same withouteforȝe. And so wipoute puttyng
atuix of any-þing late it aloon by a niȝt; At morne,
24 forsoȝe, bifore þat þe pacient go to priuè, be ȝettid
into þe lure by a nastre som oyle, what-so pleseȝ to
þe, þat þe pacient may so moche more liȝt ese hym.
Witte þou þat þus ow þou to chaufe þe ȝolk of an ey
28 with oyle. Take þe nastare wip þe forseid medicyne
putte in þe bledder, and þe bledder putte in some vessell
wip hote water, þat þe medicyne may be chauffed by
þe hete of þe watre; ffor why; hote þing eseȝ better
32 þe akyng. þan afore þe pacient go to þe priuè, take
þe leche þe forseid prede in þe lure, and be þe vtter
knotte loused, and aftir be þe prede more strongly con-
streyned if it may wipout anguiſsh of þe pacient.
36 Elleȝ, forsoȝe, be it bounden wip tuo knottis or pre
vnlouseable, and be þe heuedeȝ of þe predeȝ kutte away
so nere þe knotte þat þai may noȝt be perceyued of þe
pacient or of oper men. And witte þou þat þe leche

[* Sloane 6,
leaf 148]

A method of
giving a
clyster by
means of a
blakler soft-
ened in hot
water and
attached to
the end of
the nastar or
glyster pipe.

⁴ Sloane 6, leaf 148, continues.

The leech to keep a stock of ligature material, and to be very careful to keep his methods secret.

shuld haue euermore prede of white silke, small and strong; if he haue noȝt, forsoþe, þan take he strong prede of lyne or of tuyne. And in no maner after his miȝt shewe he noȝt his wirkyng, nouþer in kuttyng ne wiȝ 4 prede byndyng, þat his werke be perceyued of strange men, þat his cure be noȝt litle sette by, or þat any oþer witty man perceyuyng his werk mow vsurpe it to hymself; for þus did I, þerfore wake 3e, for he þat is warned 8 aforne is noȝt bigiled. It byhouep a leche vse many cautelez, þat he adorne¹ his faculte, whiche I may noȝt note to þe laste. It seemep, forsoþe, vnworpi for to vse wele þingis y-giffe þat kan noȝt gette hym mo 12 þingis. þerfore when þe pacient has clensted his wombe, be he putte vpon a bedde, and be his lure wele clensted and wyped wiȝ hote watre and wiȝ a sponge. Aftirward be it enoynted wiȝ þi fynger atuiȝ þe 16 buttokeȝ; and on ich aside about þe lure wiȝ Salus populi hette in an ostree shell. Aftirward be þer ȝetted in by a nastare þe ȝolk of an ey as aboue wiȝ oile. Aftirward be þer putte aboue sicke ane Emplastre: 20 *Recipe*—þe Iuyse of smalache or merch, wormode, Molayne, walworte, Sparge, waybrede, Mugworte, auance, petite consoude, wodbynd. Of alle þise herbes, if þou may haue þam, take euen porcion, outtake of wodebynde, 24 of whiche, if it may be hadde, be taken þe triple or quadruple. If al, forsoþe, may not be hadde, take þe toþer þat þou may haue, and namely þe pre first named wiȝ wodebynd if þou may haue it. The con- 28 feccion is þus:—Take þe Iuse of þe herbes, and be it medled wiȝ als mich of wele clarified hony, al-wise mouyng on an esy fire, and boile tham so long vnto þat þe watrynes of þe Iuyse be somewhat pikned; whiche, 32 y-take of þe fire and keled, kepe it in a gode potte.² It may laste al one ȝere or tuo; þerfore when þou wilt vse þerof, take of it als mich as it is nede, and putte þerto als miche of whites of eiren, wele y-bette and scomed,³ and 36 moue þam togider. Aftir be þer put to þam of subtille mele of whete als moche as sufficeþ, and medle þam wele to-gidre; þan putte * to a litle oyle of olyue, or of fressh buttre scomed at þe fire, wiȝ als miche virgine wax 40

¹ ut facultatem suam: decoret.

A prescription for a good clyster,

and another for a plaster.

² ab igne deposita et infrigata, reservatur.

³ prius ad ignem despunati.

[* leaf 148, back]

¹ *erm spatula*.

- togidre dissolued at þe fire by it self; þan first putte
 aboue þe iuse to þe fire wiþ hony and white of eyren,
 and moue þam all wayse wiþ a sklyse¹ þat þai cleue
 4 not to þe panne. When forsoþe it is wele hote but not
 wele y-sopen, be þe wax molten wiþ oile or buttre, as it
 is seyde aboue; whiche y-molten and þe forseid pingis
 beyng hote—þat is to seye þe hony, þe iuse, and þe
 8 white of eyren—be þai zetted togidre, and so euermore
 mouyng strongly wiþ a spatour, seþe þam on a softe
 fyre vnto þey be made oon body: whiche y-do, sette it
 of þe fire, and it beyng hote, putte to of terebentyne als
 12 moche as sufficeþ and moue it strongly wiþ a spatour
 vnto þat þe terebentyne be dronken in. And if it be
 nede for to chaufe it more for þe terebentyne, loke þat it
 suffre nozt mych hete, for in seþing loseþ terebentyne
 16 his myztes. þise y-do, be it yputte in a box and
 y-kepte to vse. Take of þis and wiþ a spatour or with
 þi þombe stretch it vpon clene lyn stupez and softe, and
 put it vpon þe lure, and aboue put a lyn cloute and
 20 bynde it, as it is seyde, in þe cure of cuttyng. þis
 emplastre, forsoþe, is called ‘diaflosmus,’ for molayne
 þat is called flosmus. And not oonly it availeþ in þis
 forseid cure but also in cuttyng of þe fistule; ffor why;
 24 it heleþ wele alle woundes, þof-al þai be horrible, &
 also bolnyngis in woundez and in brissures; and it sesep
 wele þe akyngis of woundes and of brusours. And it
 esep wele þe akyngis and þe bolnyngis of ioyntures;
 28 þis, forsoþe, haue I ful ofte proued. I sey, forsoþe,
 þat þis emplastre i-had, it is nozt nede in þe forseid
 casez to renne to oþer medicynes. And witte þou þat
 þer is a naturel vertu in walwort þat moste wele re-
 32 streyneþ blode of woundes, and akyng and bolnyng of
 woundes and of al membrez it dop best away. Witte
 þou þat þat confeccion aboue þat receyueþ Smalache,
 wormode, moleyne, sparge, &c, wiþ clarified hony sopen
 36 togidre at þe fire and kept by itself in a vessell is called
 ‘Tapsimel.’ When, forsoþe, þer is added þerto white
 of eiren and oyle, wiþ wax and whete floure and tereben-
 tyne, and ar sopen togidre, þan it is called ‘diaflosmus.’
 40 And þus ow þam to be proporcioned:—*Recipe.* tapsimel,

Be careful
 in heating
 preparations
 which con-
 tain turpen-
 tine because
 heat dissi-
 pates its
 strength.

The prepara-
 tion of “dia-
 flosmus.”

It uses.

“Tapsimel,
 its prepara-
 tion and
 uses.

white of eiren—ana ʒ iiij ; whete floure ʒ iiij ; oyle, wax—
ana ʒ iiij ; terbentyne ʒ ij. And witte þou þat if in þe
tyme of þe makyng of Tapsimel may be founden a litel
pety morel¹ whiche bereþ white flours and blak grapes or 4
beriez, it shuld for certayn make riȝt noble þe emplastre
diafosmus. And petite morel is called in flaundres
'Naghtstach.'² And witte þou þat þe iuse of it doþe
best away þe pustules in childres³ mouþes. 8

1 solanum
parvum pos-
sit haberi.

2 Naght-
sarth.

3 childe;
Sloane MS.
277, ff. 70,
back.

Treatment
of com-
plicated
fistulæ.

Lay all the
openings
into one.

[* leaf 149]

A successful
case.

If, forsoþe, þer be many holes persed to-gidre, þan owe
þe leche als sone as he may for anguissli of þe pacient,
after þe reperacion of þe first wounde, as it is seid afore, for
to knytte wip a þrede, as it is seyde afore, þe toþer holes 12
strongly. Or, if he may, þat is better þat þey be kutte
al fro oon hole to an-oþer, acu rostrata, þe snowted
nedle y-putte in þe hole, or som lynne tent, kutte þam
to þe grounde wip a rasour or wip a launcete. Whiche 16
holes, * forsoþe, y-brouȝt into oon, be þe wounde als
soon y-filled of puluer sine pari; Aboue the poudre, for-
soþe, I putte stupes kutte small, or coton, or carpe of
lynnen cloþe. Aftir putte aboue þe forseid emplastre 20
diafosmus, and be it bounden as it is seid, and ich day
ooneȝ reparailed. I sawe a man of Northampton⁴ þat
had pre holes in þe lefte buttock, and pre in þe
testicleȝ codde, and al persed fro oon to an-oþer by þe 24
middeȝ of longaon; whom I cured wip cuttyng of al þe
holes at oon tyme, of longaon as wele as of oþer. Of þe
kuttyng, forsoþe, of longaon, blode went strongly out,
for þe fistule was riȝt depe; wherefore þe pacient 28
swowned; þerfore I putte to a sponge wette in cold watir
and receyued þe blode. Aftirward I put in þe kuttyng
of longaon restrictyues of blode, of whiche it is seid
aboue, and a gode sponge y-wette in cold watre. I made 32
þe pacient for to sitte in a chayer, and als soon þe blod
was cesed. And aftir refetyng of mete and drink, he went
into his bedde and sleped wele all þe niȝt, wipoute
goyng out of blode. In þe morne, forsoþe, he had hym 36
wele; þe seconde day, forsoþe, after þe kuttyng I
filled all þe woundes of puluer sine pari, and as it
is seid afore in all þingis, with oile and an ey and
salus populi and diafosmus I helid hym finally wip 40

4 Vidi et
alium homi-
nem sc.
Iohan :
Colyn de
Northamp-
ton.

¹ Qui vero, ut dixit, viginti medicorum curam subegit.

in 14 wekes. Whiche, forsoþe,¹ as he seid, he vnder-
 zede þe cure of meny leches, And suffred it ten ȝere.
 And witte þou þat I saw neuer man vnder my
 4 hand suffre swounyng, outake hym þis; he was forsoþe
 corpulent and waike of hert, but neþerlesse aboute þe
 fourty day after þe kutting he rode. I heled anoþer
 man þat had a fistule in þe same maner in all þingis,
 8 outake þat longaon was noȝt persed; whom I cured wip
 kutting in þe same maner as it is seid of þe first. I
 haue sene som men hauyng oon hole aloon niȝ þe lure
 þat persed noȝt þe longaon, whom I heled wip puluer
 12 sine *pari* finally; but for þe moupe of þe vlcere was
 ouer streit, first I put aboue of vnguento ruptorio of calce
 viue & sape for to large þe moupe of the fistule; of whiche
 it shal be treted afterward among oþir confections. I haue
 16 sene som men haue tuo holes byside þe lure, of whiche oon
 persed þe longaon and þe toþer persed in no place, but it
 was oonly symple by itself in þe flesshe, hauyng no pass-
 yng to þe toþer hole. Of whiche was such a cure:—The
 20 hole nerre þe lure was cured wip kutting or byndyng;
 þe toþer, forsoþe, wip poudre sine pare y-put in and
 diaflosmo, and oon emplastre þat is called Neyrbone put
 aboue, whos confection shal be shewed aftirwarde. I saw
 24 also, and, oure lord beyng mene, I heled perfitely a man
 þat had ffistula in ano on þe riȝt side and on þe lefte
 side; whiche, forsoþe, had on þe lefte buttoke 8 holeȝ, and
 þre in þe riȝt buttoke; and wipin was longaon persed
 28 toward þe riȝt side oonly. But neþerlesse all þe holes of
 aȝer party of þe lure answered togidre in þe grounde
 þat was proued þus. I toke a siryng of siluer and a
 bleddre y-bounden aboute ful of sanguis veneris, and þe
 32 siryng y-putte in þurȝ oon hole and þe bleddre com-
 pressed wip þe fyngers, þe oile inȝetted *went out by al
 þe holes togidre on boþe sides, and neþerlesse þe hole
 of longaon answered noȝt but to oon hole oonly, and þat
 36 in þe riȝt buttoke; þe soþefastnes of whiche þing was
 proued wip þe instrument þat is callid sequare me, and
 wip acu rostrata, wip ful gret hardnes and bisynes;
 þe cure of whiche was suche: ffirst euery day in þe
 40 lefte buttoke þurȝ oon of þe holes I ȝetted in sanguis

Another case.

Cases of fistulae with many open-ings.

[* leaf 149, back]

A method to discover the real fistula when there are many external openings.

Treatment
by tents.

veneris wip þe forseid siring and bledder; whiche y-do,
I putte in tuo tentes or þre, or lard of pork or swyne in
þe larger holes; after þat þe depnes of þe fistules asked,
þe hueedes, forsoþe, of þe tentes war tokned *with* 4
þredes drawn þurȝ þe middes wip a nedell, þat þe
tentes shuld noȝt be drowned in þe grounde of þe fistules
when þe tentes war put in. And I putte aboue þe
emplastre þat is called Neyrbon strecchid vpon lynne 8
cloutes, and dewly y-bounden aboute þe lendes wip a
girdill and cloutes y-shapen as it is seid afore. I lefte it in
pece vnto þe morne. At morne, forsoþe, þe emplastre
remoued, þer appered aboue 3e emplastre ful putrid 12
quitour in superflue quantite. Eftsones in þe secounde
day I reparailed it in al þingis as in þe first day, and it
bifell as in þe firste day; and so it continued almost by a
moneȝ. When þe quitour, þerfore, bigynne to lessen 16
somwhat, and the bolnyng somewhat to cese, and þe
colour and þe substaunce of þe skynne for to turne to
his owne naturel habitude, þan at þe first turned I to þe
principale cure of þe fistule with persyng of longaon, 20
whiche I cured finaly wip byndyng of a þrede in þe hole
of longaon. þe toþer holeȝ, forsoþe, beyng bisyde it I
cured wip cuttyng and with puluer sine pare. Euermore
continuyng þe cure wip þe siryng in þe lefte side, and 24
wip tentes als long as þay wolde entre in, and þe em-
plastre Neyrbon y-putte aboue, and salus populi and vn-
guento arabico, vnto a loucable ende wip goddes help aboute
half a ȝere I cured hym, and lefte hym in pece. Also þer 28
bene som men þat haȝ fistules noȝt apperyng outward,
but þay putte out miche putred & watrye humour, and
som-tyme clere blode, and somtyme blode y-medled wip
quitour. And þai disese myche þe pacientes and febleȝ 32
þam. And oft-tymes suche maner sikenes bene toward
þe rigbone of þe bak niȝ þe lure, þat þay may be feled
wip a fynger. But wheȝer þay may be feled or noȝt be
þer done suche a cure wip whiche I haue cured many 36
men. Be þe pacient putte vpon a bedde wyde opne
agaynes a wyndowe, liȝt shynyng, and þe legges y-raised
vp and wip a towel y-hungen or wip a corde ordeyned
to þis werk; whiche y-do, be þe lure y-opned wip 40

Blind
internal
fistule.

Arderne's
operation
good.

- tonges so y-shape þat when þe vtward endes bene streyned togidre þe inner endes be opned & agaynward. Or if þe leche kanne ymagyne more couenable instru-
- 4 mentis to þe forseid werk to be done, for so moche loued be god þat streyngþes mannes witte in godes. þe lure, forsoþe, y-opened, and þe sikenes bisily y-sene, be þe hole of þe sikenes y-filled wip puluer sine pare, and
- 8 coton y-putte aboue; be þe tonges warly drawn out þat þai spill noȝt þe poudre, or þat þei hurt noȝt þe pacient. Whiche y-drawn out, and þe legges laten doun, late þe pacient long reste or þat he go, þat þe poudre be *noȝt [* leaf 150]
- 12 letted for to go; and abide it so stille vnto þat þe pacient clense his wombe; and if þe pacient may abstene hymself fro þe pryue by two dayes, it war full necessary to hym. When þe pacient, forsoþe, ow to be reparaed,
- 16 þan be þe lure wasshen and dried; whiche y-wasshen, be þer ȝette in of a ȝolk of an ey wip *sanguis veneris* to esyng of þe ake þat cometh of puluer sine pare, and to þe clensyng of þe vlcer of flesh mortified by þe forseid
- 20 poudre. And þis cure continúe þe leche by fife dayes or mo, þat is to sey of þe ȝolk and of *sanguis veneris*, vnto þat he se þe pacient wele alegedde¹ of þe first akyng. Whiche y-do, þan owe þe leche in þe best
- 24 maner þat he may for to opne þe lure and bisily biholde wipin, and considere if þe sikenes be mortified; whiche is knowen if þat þe vlcer seme depper þan it was sene afore þe puttyng in of þe poudre, and also by oþer
- 28 tokenes þat a gode leche fyndeth more experte of long exercise. In þis þerfore to be yknownen be noȝt þe leche slowe; for why; þer shal folow noȝt litle louyng þerof. þerfore if it be noȝt mortified be it eftsones
- 32 filled of puluer sine pare, and be it sewed² in all þingis as it is seid afore, wip þe ȝolk of an ey, & wip *sanguis veneris*, vnto þat he se efte-sones þe pacient wele alegged, as it is seid afore. When, forsoþe, he troweth þat it is
- 36 mortified, þan it is to turne agayne to anoþer cure, þat is to sey þat he take þe ȝolke of an ey to whiche be added þe half parte of tapsimell, and als miche as sufficeþ of poudre of alumme ȝucaryne y-brent. And be it so
- 40 made þat it may be ȝetted in by a Nastar of tree; and

but he is not wedded to it.

After-treatment.

Examine for gangrene.

Treatment for gangrenous inflammation of rectum.

¹ bene alleviatur.

² et prosequatur.

Diminished
discharge a
good sign.

The treat-
ment of
ulceration of
the rectum.

The applica-
tions are not
to be too
irritating.

[* leaf 150,
back]

Soothing
clysters are
best.

pis cure be continued al-oonly by pre or foure dayes :
pe fourpe, forsope, or pe fifthe day aftir pis medicyne
done to, be pe vlcer reparaed wip pe 3olk of an ey and
sanguis veneris pre or foure dayes continued. And so 4
owe pe leche for to chaunge his hande fro oon medycyne
to anoþer, vnto þat he se pe superflue moistenez firste
goyng out for to cesse ; þat is tokne of cure or help beyng
nize. þan, forsope, may he *with* vnguento arabico and 8
salus populi finaly spede pe forseid cure aboute four &
twenty wekes, or more or lesse, aftir þat pe pacient be
obedient and bisy ; ffor why ; gret spede of werk standeth
in pe paciens and bisynes of pe pacient.¹ And it is to 12
witte þat in all vlceriez beyng wipin pe lure, or moiste
ragadiis puttyng out quitour or blode, þis I sey þat pe
vlcerez be nozt bubones, i. e. owles, of whiche it shal be seid
aftirward, for þai be al vncurable² : þat if a leche may 16
nozt wipoute grete anguissþ, als wele of hymself as of pe
pacient, opne pe lure of pe pacient wip tonges, as it is
seide afore, þan owe pe leche oonly putte in of tapsimell
and puluer sine pare medled togidre in suche piknes þat 20
it may be 3etted in by a nastare of tree. For why ; pis
medycyne mortifese wele and clenseþ putred flessch in an
vlcere. But witte þou þat euermore aftir pe 3ettyng in
of tapsimel wip pe forseid poudre, þou ow in pe nexte 24
reparalyng for to 3ette in wip a nastare of tre of pe 3olk
of an ey wip *sanguis veneris* or oyle rosette, or wip
comon oile if pe forsaid wante. And pis cure be con-
tinued wipoute leffying *by pre or foure dayes. It 28
spedeþ nozt, forsope, þat medicynes bryngyng in akynge
be to moche vsed or haunted, as is tapsimel wip puluer
sine pare. Neperlesse tapsimel wipout puluer sine pare,
wip pe 3olk of an ey and wip poudre of bole armonic 32
ful smal y-broke and medled wip oile of lynsed togidre,
oyle of rose added to, or of violettis, or of *sanguis veneris*
if it be had redy, And 3etted in wip Nastare of tre, heleþ
wele vlceres, ragadyes, and excoriacions or fleyngis wipin 36

¹ Nam magna operis expeditio in patientia et sedulitate patientis consistit.

² Nota de ulceribus infra anum existentibus. Et notandum quod in omnibus ulceribus infra anum existentibus, vel rhagadiis humidis saniem emittentibus vel sanguinem, hoc dico, quod ulcera non sunt bubones, de quibus inferius suo loco dicitur ; Bubones namque sunt omnes incurabiles.

¹ Hoc super-
posito post
mortifica-
tionem pu-
tridæ carnis.

þe lure; þis supposed after þe sleynge of flessch putred,¹
wip enoyntyng of salus populi, þat availeth beste for
certeyn in euery cause wipin þe lure and wipoute.

4 Of bubo with-in þe lure, and the impossibilitie
or mych hardnes of þe cure of it.

² Bubo est
animal late-
bras colens.

6. [B]ubo is ane aposteme bredyng wipin þe lure in þe
longaon wip grete hardnes but litle akyng. þis I sey
8 byfore his vlceracion þat is noping elles þan a hidde
cankere, þat may nozt in þe bigynnyng of it be knowen
by þe sizt of þe eize, for it is hid al wipin þe lure;
And þefore it is callid bubo, for as bubo, i.e. an owle, is
12 a best dwellyng in hideles ² so þis sikenes lurkeþ wipin þe
lure in þe bikynnyng, but after processe of tyme it
vlcerate, & fretyng þe lure goþe out. And ofte-tyme
it fretiþ and wasteth all þe circumference of it, so
16 þat þe feces of egestionis goþ out continually vnto þe
deth, þat it may neuer be cured wip mannes cure but
if it plese god, þat made man of nozt, for to help
wip his vnspekeable vertu. Whiche, forsoþe, is
20 knowen þus: Putte þe leche his fynger into þe lure
of þe pacient, and if he fynde wipin þe lure ane hard
þing as a stone, somtyme on þe to party al-oonly, som
tyme of boþe, so þat it lette þe pacient for to haue
24 egestion, it is bubo for certayn. Signes, forsoþe, of his
vlceracion bene þise: þe pacient may nozt abstene hym
fro þe pryue for akyng & prikyng, and þat twyse or
þrise wipin ane houre³; and þer goþe quitour out
28 þer-of as it war medled wip watrye blode and stynkyng.
To þat also wele vnkunying leches, as þe pacient,⁴ troweþ
þat þey haue þe dissenterie, þat is þe bloody fluxe,
when trewly it is nozt. Dissenterye is euermore wip
32 flux of þe wombe, but bubo goþ out hard egestions, and
som tyme þey may nozt go out for streyntnes of þe bubon
but þai ar constreyned wipin þe lure strenghtly, so þat
þai may be feled wip þe fynger and y-drawe out. And
36 in þis cas availiþ þe myche clisteries lenitiues of watre
of decoction of whete brenne⁵ wip oyle or butter, or wip

Cancer of
the rectum.

The diag-
nosis.

The signs

³ "et ali-
quando
sepius,"
adds the
Latin text.

⁴ Tam medi-
ci ignari,
quam
patientis.

⁵ lenitiva ex
aquâ decoct.
sulfuris
tritici.

often mis-
taken for
dysentery.

The way to
distinguish
between
cancer and
dysentery.

Read
Bernard de
Gordon's
'Lilium
medicinæ.'

The diet in
cancer.
[* leaf 151]

The symp-
toms.

Death in
autumn.

The favour-
able signs.

Be careful
only to use
palliative
treatment.

Warn the
friends.

symple decoction of branne wipoute medlyng of any
oper ping. Neperlesse vnkunynge leches ministrep
vnto suche restrictiues medicynes of dissenterie, of bole,
and sang dracon, mastik, coriandre, sumac, mirtilles, 4
harde zolkis of eyren, gret wyne, and suche oper þat
availeþ to restreynynge of flux of þe wombe, as þou
shalt mowe fynde in 'lilio¹ medicyne,' capito "de fluxu
ventris." And how moche more þat þai giffe restrictiues, 8
so moche more þai noye to þe forseid in constipand,
i.[e.] costyuenes, and in hardenand þe squilullam²; þat
I haue oftymes bene experte of, And I haue lerned it
in experience in whiche I was not bigiled: ffor why; 12
constrictiues y-lefte als wele in diete as in þe forseid
medicynes I esed mich wip vse *of clisteriez of branne
symple or of maluez and branne wipoute oyle or butter
or any fatnes; ffor why; al fatte pingis and oile pingis 16
norissheþ þe cancre and fedip it. And it is to witte
þat þise bene þe accidentes of þam þat haþ bubon in
þe lure: þai may ete and drynk and go, and somewhat
sitte and somewhat slepe; þai be menely hungry and 20
prifty in mete vnto þe ende; þai may nozt abstene
þam fro þe priuè. And ofte tymeþ comeþ perisshyng
to þam aboute autumpne or heruest; and it neiþyng nere,
þay bigynne for to haue febres as it war a softe febre; 24
and þai lose as it war þair appetite; þai bigynne for to
lope ale and þai couaite wyne; þai ete ych day lesse
and lesse; þai slepe vnesely; þai ar made heuy als wele
in mynde as in body; and þe fallyng doune neiþhyng 28
nere, þai are made feble, and þai halde continuely þair
bedde, and þay couayte watre aboute all pingis. Þise
perfore y-sene, deþe is in þe zatis.³ Neperlesse þai
may speke & raise þamself vp and moue almost to þe 32
breþing out of þe spirit. perfore wake 3e þat 3e putte
nozt 3oure hand to þis but in giffyng clisteries, as it is
seid afore; whiche alegeþe mych þe forseid pacientes, as
I haue be experte, and makeþ euermore pronosticacion 36
to þam or to þair frendes als wele of deþ as of vneur-
ablenes. Sich pronosticacion, forsoþe, shal worshiþe þe
bisynes of þe leche: perfore flieþ auarice and abstene
3ow fro false byhestis. Witte þou þat þe fynger y-putte 40

¹ in lilio
medicinæ
capitulo.

² squibala.

³ His ergo
visis, mors
est in
ianuis.

into þe lure of hym þat has þe dissenterye, he shal fele
 noþing in þe longeon but to þe maner of oper hole
 menne. But in þe lure of þam þat haþ þe bubon
 4 shal be feled a bolnyng riȝt hard, as if þer war an ey of
 ane henne or of a gose. But neþerlesse þe putrede,
 i.[e.] rotennez, and þe blode þat goþe out of boþe bene
 8 mych liche; þat is þe quitour is citryne or ȝellow and
 blo or wanne medled wip watry blode wip gret styng,
 and it goþe out to þe quantite of o sponeful or of tuo
 wipout medlyng of egestion, and som-tyme wip egestion.
 But in dissenterie he shal fele fretyng about þe nauyle
 12 and þe flankes; in bubon, forsoþe, noȝt so; but akyng,
 stirryng, and prikyng, and tenasmon; þat is, appetite
 of egestion. I se oon of Northampton-shire whos lure
 was frete on euery party, so þat he miȝt wipholde noþing
 16 of þe feces of egestions but þe grettest; ffor why; his
 lure was euermore stopped with a grette towell of lynne
 cloþe; but neþerlesse þe þinner egestions went out
 continuely, so þat his cloþes about his buttokes war
 20 euermore moyste; and þe towel y-drawn out, in þe
 stede of þe lure was a rounde hole by whiche an ey of a
 dukke miȝt liȝtly be putte in, and I myȝt se ferre into his
 wombe. Whiche died afterward of þe forseid infirmite;
 24 ffor why; he was vncurable, for þe mouþe of þe lure
 wip þe lacertes and þe synowes speryng and opnyng þe
 lure was vtterly gnawen away.¹ And forþy² in suche like
 be it done avisily þat couaitise bryng noȝt forþe blame
 28 to þe leche. I saw neuer ne I hard noȝt any man þat
 miȝt be cured of þe bubon, but I haue knowen many
 þat defaileþ of þe forseid sikenes. Also I haue sene
 som hauyng a ful gret brennyng aboute þe lure wipout,
 32 and vntholeful smertyng³ wip ronklyng of þe skynne
 aboute þe lure closed to þe *maner of a purse, wherfore
 þe pacientes miȝt noȝt wele sitte, ne ligge, ne stonde euen,
 ne fynde reste in no place, but euermore mōnyng and
 36 stirryng þamself as it war wode men. And superflue
 watrenes swette out fro þe place þat was wonte for to
 file many lynnen cloþes putte atwix. To whiche sikenes
 availeþ mich colde pingis in power but hote in dede
 40 y-putte to, as bene aysel,⁴ vinegre, hote by itself or wip

Make a
 rectal exam-
 ination to
 distinguish
 between
 cancer and
 dysentery.

An advanced
 case of
 cancer of the
 rectum.

Cancer of
 the rectum
 incurable.

[* leaf 151,
 back]

Palliative
 treatment
 methods to
 be adopted.

¹ quod ori-
 ficium lurae
 cum lacertis
 et nervis
 Luram
 claudenti-
 bus et
 aperientibus
 omnino cor-
 rodebantur.
² idcirco.
³ pruriginem
 intolera-
 bilem.

⁴ acetum.

Local appli-
cations.Fomenta-
tions.An ointment
for pruritus
ani.Another
ointment.A treatment
for erysipela-
s.

Iuyse of rubarbe, or plantayne, or virga pastoris, or of
oper cold þingis in power. But for þat ofte-tymes
suche herbes may noȝt be had redy, þan it is to flye to
oper remedies; þat is to sey, Take þe raw zolk of an ey ⁴
and medle it wele wip þe poudre of bole armenic broken
ful smal, or ceruse, or bope, and anoynt it aboue þe sore
wip a penne or feþer or wip a spatule; þis, forsope,
sesep þe brennyng and þe akyng, and be þis oft tymes ⁸
done agayn. Also in euery remouyng it availeþ mich
þat þe yuel or sore be wele fomented or soked wip
vinegre and watre y-medled togidre and chaufed; ffor
why; þis gretly euaporeth noyful hete. And aftir þe ¹²
fomentyng, þe place wele y-dried, be it reparaed as it is
seid afore, wip þe zolk of an ey and bole. When þe
customable watrynes, forsope, is sene to cese, and þe
patient feleþ as it war vnsufferable ychyng, þan be þer ¹⁶
putte to euery day oones ane oyntement made of blakke
sope and poudre of bole and sulphur and frankensence
ymedled to-gidre. And þis oyntment shal drie, and shal
make skales to rise fro þe sore; whiche y-sene, be þe ²⁰
lure anoynted als wele wipin as wipout wip vnguentum
album sharped wip bole and wip quik-siluer, and þis
shal cese þe hete and it shal cicatrize þe fleeng.¹ And if
it bene anoynted wip salus populi, it profiteþ mych. ²⁴
At þe last, forsope, agayn; þe disesyng ychyng be it
anoynted wip tapsimel, In whiche be puluere; of alume
zucarine brent, of attrament, and of vitriol; þis, forsope,
dope heste away ychyng for certayn, als wele wipin þe ²⁸
lure as wipoute. Or if þou haue noȝt redy þe forseid
tapsimell, be þe same done wip scomed hony, and þe
ferseid puluere; medled þer-to. Or þer may be made
a medycyne to þe maner of þe forseid tapsimel of þe ³²
Iuyse of celidone and scomed hony, to þe whiche þe
forseid puluere; ymedled, I haue proued þat it dope
heste away ychyng.² Also þe Iuyse of celidone y-medled
wip vinegre and warmed at þe fire, and wip a fether ³⁶
anoynted up þe forseid sore, þat is to sey in þe
bigynnyng of þe sikenes, it quenchip wele þe wickid
hete and keped fro recidinacion,³ þat is fallyng agayne.
And it quenchip wele herisiptam, þat is wilde fir ⁴⁰

1 et hoc ca-
lorem seda-
bit et esco-
riationem
cicatrissabit.

2 Pruritus

3 bene calo-
rem noxium
extinguit et
a recidina-
tione pro-
servit.

¹ "feu sawage."
² Acetum tepidum.

³ Ulcus perniciosum.

⁴ bene adherens.

⁵ scum sanguineum.

or few sawage¹ in euery place of þe body. And þe same
 dop leuke vinegre² put aboue by itself; Or vnguentum
 album sharped wip quicsiluer. Also oile of citonior:
 4 cureþ þe herisiple and wickid vlceres.³ Also þe Iuyse of
 celidone, imbibed in a sponge or in lynne clopes, and
 y-putte leuke to þe front and to þe temples, it cesep
 þe akyng of þe heued. And þis I proued oftymes in
 8 þe second pestilence. þer come a man fro Burdeux in
 Gascon vnto Newerk, þat had ane horrible sore, þat is
 to sey peces or gobettis of rede flesshe and rawe in
 parties hyngyng downe to þe lengþe of ane ynch. And
 12 þai occupied þope his buttokes on aiper party of þe lure
 to þe *brede of þre fyngers; and þer went out þer-of
 rízt mich watrinnesse and some-tyme blode wip gret
 hete and styng, so þat his buttokkes war cauterizid;
 16 and þei grew to þe liknes of þe womb of a fissh þat is
 seid creuyse or lopster when he spermeþ or friep. And
 þose superfluites partyngly grew in þe hole skynne;
 and when þei war mortified euen to þe rotes, þer
 20 appered holes fro whens þai went out. I mortified,
 forsope, þe superfluties wip a poudre þat is called
 Puluer greke, þe confeccion of þe whiche shal shewe
 aftir. And for þat þe mich watrynes goyng out in
 24 þe bigynnyng ouercome þe forseid poudre, þerfore I
 putte aboue, aftir þe puttyng of þe poudre greke, of þe
 moste subtile mele of barly abundantly, þat is called
 alfita, aboue þe poudre greke; and so I quenchid þe
 28 forseid superfluites wipin þre or four puttyng to, so
 þat þai bigan to dry and to welk and fall away.
 Puluer grek, forsope, is rízt desiccatiue and wele cleuyng⁴
 to; and nozt onoly it restreyneth wele watry moistenes
 32 but also blode, and it mortifep þe curable cancer and
 þe bloody fike⁵ in euery place. A man had vpon his
 buttok a bloody fyk puttyng out blode and somtyme
 quitour, and it was like to a Mulbery; to þe whiche I
 36 putte aboue puluer grek by oon níz, and in þe mornyng
 I pulled out rízt litzly wip my fyngers þe fike half
 mortified; þe whiche y-drawe out, blak blode went out
 after. After a litel goyng of þe blode, forsope, I putte
 40 to puluer grek, and þe blode was restreyned. Aboue þe

Recites a
 case,
 and its treat-
 ment.

[* leaf 152]

Pulvis
 Græcus and
 its uses.

A case of
 bleeding
 piles
 and its
 treatment.

poudre, forsope, coton y-put atuyx, I putte aboue þe emplastre Nerbon vpon a lyn cloute, to kepe þe poudre þat it shulde noȝt falle away. And þus, þis forseid cure continued, he was hole wipin a shorte tyme. 4

Of fistules in þe fyngers, and hardnes of cure of it.

7. [I] haue sene oft-tymes þe fistule be in þe fyngers and in þe pombes, als wele of men as of wymmen; als 8 wele of yong men as of olde men; þe cure of whiche many men knoweþ noȝt: ffor why; it bredeþ oft-tyme in þe fynger or þe pombe of som men in þe extremite of þe flessdynes mortifying al þe ouermore iuncture, 12 þat is þe flesshe wip þe bone. And somtyme it brediþ in þe middes iuncture, and þat is more perile; and somtyme in þe lawer iuncture by þe hande, and þat is werste. Neþerlesse þe fistule bredyng in þe extremite 16 of þe fynger deceyueþ sonner þe pacient þan in oþer places; ffor vnkunnyng men seiþ þat it is þe whitflowe, whiche þou shalt knowe þus. If þer byfal to any man in þe extremite of his fynger akyng wip inflacion, and 20 when þat it bristeþ it makiþ a litel hole, and oute of þat hole þer goþ out a litle docelle of putrified flessþ or rede, to þe gretnes of a whete corne, and þer goþ but litte quitour or noon out þerof, þan witte þou þat þer 24 cleueþ a fistule to þe fynger. And wipoute doute if it be wipoute help any long tyme, as by a moneþ or fourty dayes, it shal noȝt now be cured wipoute lesyng of þe ouermore iuncture wip þe bone, and perauenture 28 of þe ouermore and þe neþer-more boþe; þat I haue oftymes proued. ffor why; oftymes þe bone of þe fynger is frete or gnawen or it bigynne for to ake, þat is proued þus. forsope I haue heled som men þat seid 32 þat þei feled noon yuel but by a fourtniȝt; * And when I saw þe forseid tokne of þe fistule, þan al-sone I departed in-als-myȝh as I myȝt þe skyn of þe fynger riȝt foule wip a rasour and sheres; and þe skynne y-put of, I fonde 36 al wipin putrefied, and neþerlesse þe fynger was noȝt but a litte bolned. And poudre creoferoboron y-putte

Fistulæ in the fingers not to be mistaken for whitlows;

they take a long time to cure.

[* leaf 152, back]
Some cases seen early.

- to mundefye þe corrupcion by al a niȝt, and aboue
þe emplastre sanguiboetos. In þe mornyng when þe
filþe was dissolved and drawen out, I perceyued þe
4 bone of þe fynger to be tabefacte, i.[e.] corrupte, and
frete & loused fro þe toþer iuncture, and þat was
meruaile. And in som men I haue perceyued þe bone
corrupte in party and noȝt in all fully; and somtyme
8 two iunctures vtterly mortefied and corrupte. ffor why; Their treat-
ment.
it is certayne þat bones shul noȝt be corrupte wipin a
fourtȝt if þai war vncorrupte afore þat tyme. þe cure
of þe forseid is such: If sich ane yuel or sore come of
12 newe, and he haue had no cure afore, and if þou perceyue
þe forseid tokne of fistulacion, þan alsone be þe skyn
flayn wip a rasour, as it is seid afore. Aftirward if þer
be any filþe þerin, be pressed out. Aftirward, forsoþe,
16 be þe wounde filled of þe puluer creosferoboron; þat y-do,
be þer putte aboute of the emplastre Sanguiboetos wip
stupes, and so be it lefte by oon day and a niȝt hole.
Aftirwarde whan þou remoues þe emplastre and hap
20 mundified þe filþe y-fonden, If þou fynde þe bone of it
blak and putrefied in þe hiȝe party, it bihouep of neces-
site be drawen out. Or if þe vtter party of þe bone
be losed al aboute fro þe flesshe and þe naile, þof-al it
24 be noȝt blak, it bihouep be departed and þat alsone as it
may, þat þe bone þat is corrupte aboue infecte noȝt
wip his corrupcion þe bone þat is festned to hym;
whiche if it bifal, it bihouep þoþe be drawen out. ffor
28 why; a corrupte bone or a lesed may noȝt dwelle or abide
in þe flesshe, for no cure beyng mene, þat ne it corruppe
ouper þe flesshe or þe synowes. Or þe flesshe shal
caste it out when it is in a wounde or in aposteme, or in
32 a cancre or fistule. þe bone forsoþe y-drawn out, be
þe place y-filled of þe poudre creosferoboron, and aboue
þe emplastre Sanguiboetos; and be it lefte þer by als
long tyme as it is seid afore. Aftir forsoþe, þe
36 emplastre remoued, if þou se þe hole y-clensed wip
þe forseid poudre, þan be þer putte eftsones of þe
forseid emplastre wip þe poudre, renewyng þe emplastre
ych day tuyse. And so wip þe forseid emplastre, or wip
40 vnguentum viride lefe noȝt to hele it vnto þe ende. If

The signs
not obvious
at first.

The dead
bone should
be removed.

Treatment
after the
dead bone is
removed.

A means of recognizing the growth of proud flesh.

Treatment of the fistula

[* leaf 153]

by operation.

Licium is made in this way.

A case treated by a lady was so neglected that

per growe, forsope, any superflue flesshe in þe hole, as it falleþ oft tymes, þat þou shalt know þus: þe superflue flesshe bygynne for to growe fro þe bone in middes of þe hole, and noȝt fro þe sides of þe flessþ. 4 And wipin þre dayes or foure, if it be not mette or agayn-standen it passeþ þe sides of þe gode flessþ, for it groweþ wip hastines; whiche flessþ, forsope, may be drawen out in þe bigynnyng wip þe poudre of creofero-8 boron. If it excede in grete quantite, þan it bihoueþ for to putte to poudre of arcenek, or ane hote iren. Afir þe puttyng to of þe poudre, or of þe hote iren, þer is to be putte-to larde enoynted wip þe iuse of 12 porres, for to lese *þe mortified flessþ; whiche y-lesed, þe fynger is to be enoynted wip ane oyntment made of sape & brymston. In þe hole, forsope, be putte vnguentum viride vpon a stupe; and euery day be it tuyse re-16 moued, and þus euermore sewe þe forseid maner. If þe bone, forsope, of þe fynger or of þe pombe be corrupte in party bot noȝt lesed fro þe naile, þan afir þe miȝt be þe corrupte shauen away, and þan be put þerto licium, 20 þat is carpe wette, in ane oyntment þus y-made: Take licium, þat is þe iuse of wodbynde, i.[e.] caprifoile, and hony and poudre of white glasse ana; be þai medled to-gidre and made ane oyntment; þis oyntment engendreþ 24 flessþ; it slep þe fistule; it mundifieþ þe filþe or putrifaccion of þe bone. ffor why; glasse makeþ flessþ for to grow vpon þe bone; hony purgeþ and remoueþ þe stynk; licium haþ vertu for to mundifie þe filthe or 28 þe putrefaccion of þe bone, and for to hele þe wonde, and for to sle þe canere and þe fistule. And licium is made þus: Take þe leuez of caprifoile and brisse þam in a mortar, and priste out þe iuse, and putte in a brasen 32 vessel or of glasse, and drie it at þe sunne, and kepe it to vse. It is þe beste medicine; If þe fynger, forsope, of any man haue be long vnheled of vnwise cure, or of negligence of þe pacient after þat þe bone is take out—36 As somtyme it bifell of oon þat was vnder þe cure of a lady by halfe a ȝere, after þat þe vppermore iuncture of þe bone of þe fynger was drawen out. ffor why; þat lady entended for to haue heled hym al-oonly wip drynk 40

of Antioche and oper pillules; and for cause pat the
 naiff of pe fynger abode stille, she trowed perfore for to
 haue souted pe place of pe fynger in whiche pe bone
 4 pat was drawn oute stode bifore; whiche, forsope, mizt
 nozt be, for pe flesshe and pe skynne wip pe naile pat
 went aboute pe bone bifore war infecte and putrefacte
 of pe bone; wherfore of necessite al mortified and cor-
 8 rupte bihoued to be drawn out of pe flesshe and pe skyn
 or pat it shulde come to helpe. perfore a long tyme
 ouerpasse, when he come to me and pe fynger ysene, first
 I putte in poudre creoferoboron, and aboute pe emplastre
 12 Sanguiboetes in pe maner seid afore. Aftirward, it
 remoued, I perceyued pat it was of hard substance and
 inobedient to pe poudre; pan putte I to poudre of
 arsenek. In pe day, forsope, folowyng, I biholding pe
 16 fynger I perceyued pat pe arsenek had wrouzt litel or
 nozt. ffor pe place wher arsenek is putte in, if it wirch
 perfutely, shal bycome blo & bolned aboute pe extremite
 wipin a nigt and a day; Aftir in pe prid day per shal
 20 departe in sondre in pat blones, pat is to sey mortified
 fro pe quik. But pat worchyng shal better done and
 soner if pe secounde day after pe puttyng to of arsenek
 be putte to larde wip pe emplastre sanguiboetes. The
 24 place, forsope, of pe forseid fynger strongly agayn-stode
 to pe poudre of arsenek. ffor pe place was drye and
 inveterate, or olde, in substaunce. his y-sene, wip som
 men it is to wirche wip cauteries; pan, forsope, a
 28 cauterie putte per-to, I brent pe fynger in pe extremite
 of it wipin vnto pe bone; pe pacient, forsope, almost
 feled noping. Aftir pe brennyng, forsope, I putte in
 to pe hole pe fattenes of lard wip pe iuse of porres;
 32 pe second day, forsope, a gret quantite y-mor*tified, pe
 flesshe and pe skynne went away wip pe naile; pan
 pat tyme I putte-to pe emplastre Sanguiboetes; In pe
 mornyng, forsope, pe poudre Creoferoboron wip pe
 36 same emplastre. And so aftirward by seuen dayes, ich
 day wirchyng as it is seid, per was zitte perfore in pe
 wounde pe endes or heuedes of synowes; whiche, pe
 bone remoued, war festned, apperyng wip a maner blaknes,
 40 and pe flesshe mortified on pe to partye. his y-sene,

it had to be
 dressed with
 arsenic

and touched
 with the
 actual
 cautery

[* leaf 153,
 back]

for seven
 days before
 the dead
 bone could
 be removed,

and for nine
days with
ointment,

and the
patient
recovered
perfectly.

eft-sones I couchid softly þe heuedes of þe synowes and
þe side mortified *with* ane hote iren, puttyng in þe
shauyng of lard wip þe iuse of porres. In þe mornyng,
forsoþe, þat superflue flessþi was remoued, and þan I 4
putte in poudre of Creoferoboron for to mundifye it, and
aboue þe emplastre forseid, and so *afterward* continually
by þre dayes: þan, forsoþe, putte I to þe enoyntment
made of licium, seid afore, continually by nyen dayes. I 8
enoynted, forsoþe, al aboute þe fynger vpon aiper side
wip ane enoyntment made of sope and sulphure, and als
sone þe fynger was flayne, and put out as it war scales;
and als sone þe bolnyng biganne for to cese; þan, for- 12
soþe, I putte-to vnguentum viride vpon stupes, And þe
fynger bigan for to soude. But a litel after þe puttyng
to of vnguentum viride, þer bigan for to growe vpon þe
heued of þe bone of þe iuncture rede flessþi to þe gretnes 16
of a pese; and þat y-sene, I distroyed it wip a cauterie;
And þan I made hym suche ane oyntement desiccatiue.
Recipe: Sulphur. auri-pigmenti, tartar., alume, vitriol,
sape and oyle; whiche ich day puttyng to oones, he 20
recouered helpe perfytely.

8. Of fistul in þe lawe ioynntour of þe fyngers,
and in þe legges, knees, fete, & ankles,
wip corruptyng of þe bones, and þe hardnes 24
of þe cure.

Cases of
Spina
ventosa.

Amputation
is best.

[S]um-tyme also the fistule gutte byfalleþ in þe
fyngers of ʒong men, and oft-tymes of ʒong wymmen, in
þe lower ioynnture by þe hande, and it makeþ holes in 28
þe skynne som-tyme on þe to party and som-tyme on
boþe parties. When þe knowes, forsoþe, þe holes to
be on þe boþe parties, witte þou þat þe pacient is
incurable, But if þe fynger be holy cutte away be þe 32
iuncture where it is festned to þe hand. If þe bone,
forsoþe, of þe hand niȝe to þat fynger be corrupte also,
he is incurable but if it be drawn out. But witte þou
þat it is noȝt mich to entremette of þe cure of suche þat 36
þe helpe of þam be vndertaken. ffor I haue but seldom

sene any suche scape wipout deþe whan þe sikenes
 was helped. ffor þe fluxe or þe rynnyng þer y-dried,
 or stopped, or staunched, þai dye sone after. Suche
 4 þingis shalt þou knowe þus: þe fynger or þe hand,
 or þe fote, or þe legge, or any oþer membre in whiche
 is sich a fistule stynkeþ gretly; it hap streite holes; þe
 wondes hap hardnes wip whitenes and redenens; and
 8 when þe wondes be rennyng þan þe pacient hap hymself
 miryly and glad; and when þai ar stopped þe pacientes
 bene pale in þe face and lene and feble. Also it falleþ
 of-tyme in þe legge, in þe knee, in þe fote, and in þe
 12 ankle. In þe legge and in þe fote I haue cured it, and
 in þe ankle; But in þe ankle and þe kne also it bristed
 out agayn aftir litle tyme.

Signs of
 incurable
 fistule.

9. Of þe maner of cure of oon þat had þe
 16 fistule in þe legges aboue þe ankle.

[O]n tyme I heled a man þat had a fistule goutte in
 þe legge aboue þe ankle and þe fote wip þe emplastre
 Sanguiboetes, and wip a poudre þat is *made þus: [A powder
 for fistulous
 gout.
 [* leaf 154]
 20 *Recipe auripigmenti, sulphur, calx viue, and black sape
 ana; be þai poudred and putte to tuiyse in þe day.
 Aboute þe wounde, forsoþe, I anoynted it wip comow
 oyle or vnguentum album vnto þat he come to perfite
 24 helþe. Also I gaffe hym drynk of Antioche. Aftir þe
 cure, forsoþe, I sawe hym neuer, þerfore I know nozt
 how long he liued,*

10. Of þe maner of cure of ane enposteme in
 28 the buzt of the knee that was disposed
 to the fistule.

[O]n aposteme come to a man in the bowyng of þe
 kne, þat was hard to breke for vncouenable emplastres
 32 putte þer-to first; þerfore I putte first þerto þe skynne
 of lard þat diffieþ wele apostemeþ; And neþerlesse after
 þre dayes I miȝt nozt perceyue signe or tokne of rupture
 or of brystyng. Whiche y-sene, I wold þrieþ haue opned
 36 it wip a fleebotome or wip a rasour, but þe pacient for-
 Treatment
 of a patient
 with an in-
 flammation
 in the ham,
 who would
 not have it
 opened.

The plaster
used.

The dis-
charge
ceased when
he became
feverish,

and the in-
flammation
nearly be-
came a
fistula.

Arderne has
seen the
popliteal
space in
dead men

soke it; þan, forsoþe, put I to ane herbe y-brissed þat is
called pede lyon, þat it miȝt make a rupture in þe skyn,
for it was to pikke; and in þe niȝt þe pacient put it
away. þan made I ane emplastre to hym of mele of 4
whete and of clene hony medled togidre, and I putte it
to; & aftir þe second puttyng to it brest in þe niȝt, and
þer ranne out þerof quitour wiþ-out mesure; þe qui-
toure y-bristed out, I putte in tentes of larde to þe 8
lengþe of a fynger, þat þe hole shulde noȝt be stopped
byfore þat þe aposteme war purged. In þe mene tyme
þe pacient felle into þe febres agueȝ, And als sone þe
flux or þe rennyng of þe quitour in þe aposteme cessed, 12
in partye for negligence þat tentes was noȝt put in
bycause of þe sikenes, and in party for distemperaunce of
hete þat dried it. And so, þe hole y-closed or stopped,
it biganne eft-sones for to bolne bineþe and for to gedre 16
to a newe aposteme; þe whiche y-sene, I opned þe hole
wiþ a spatule and expressed þe quitour gedrid to-gidre.
Aftirward I putte in ich day of lard, renewyng it ich,
by a fourtniȝt and more. And neþerlesse I perceyued 20
noȝt þat þe aposteme dried any-þing, but more and
more for to harden and wax rede, and putte out quitore,
liquide and watry, somtyme mych and somtyme noþing.
þerfore I perceyued þat þe place was disposed to þe 24
fistule, for it had ane hole or a mouþe and a depe wonde,
and it putte out quitour of diuerse coloures and liquide,
wiþ hardnes of þe place and yuel habitude or hauyng;
þerfore I putte in tentes anoynted wiþ anoyntement þat 28
is made agayns þe fistule, þat is þus made: *Recipe* auri-
pigment, sulphur, calx viue, blak sape; þe whiche, for-
soþe, y-putte in fyue tymes or seuen, I perceyued it noþing
to amende. I made a ventose to be putte to, and it wolde 32
noȝt drye; þis y-sene, I perceyued þat rewme—þat is a
flowyng or rennyng—miȝt noȝt cese, for þe place in
whiche was þe aposteme is of moiste substaunce. And it
is to witte þat in þe place byside þe bowyng of the kne 36
in þe neþer party is a place þat hap no flesh but fat-
nes aloon; As I haue sene þer in dede men, þe skyn of
þe flesh y-persed and þat fatnes bene eten or wastedde.
þan I putte in þe hole vnto þe ground a tent of tre, 40

somwhat brode, and aboue I cutted þe skyn by þe middes
 wiþ a rasour. In þe wonde, *forsope, I putte a cloth
 depped in þe white of an ey. In þe morne, forsope, it
 4 remoued, I put in a poudre þat is þus made: *Recipe*
 vert-grese, vitriol, auripigmentum, alume; Aboue, forsope,
 carpe, And afterward ane emplastre þat is þus made:
Recipe: apii, i.[e.] smalach, Mogwort, Walwort &c. as
 8 aboue. And so wiþ þis poudre and þis emplastre he
 was sone aftir cured. Or if þou wilt, aftir þe cutting
 þou may hele wiþ diaquilon. But it is to witte þat he
 12 þat owe to make incision in þis place þat he be-war of
 þe grete veyne þat is called sophena, þat comeþ down
 by the þ[i]e to þe legge, þat it be nozt kuttet, for it
 liggeþ nize þat fatty flesshe &c.

(* leaf 154,
back)

The patient
was cured by
a stimulat-
ing powder
and plaster.

Beware of
cutting the
vessels in
operating on
the ham.

11. [þ]e arme of a certane manne biganne sodenly
 16 for to ake & prik in þe buzt of þe arme¹ and afterward
 gretly to bolne fro þe shulder to þe fyngers; þe pacient,
 forsoþ, hauntyng or vsyng þe medycinez of ladiez, as it
 war by a moneþ, euermore had hymself worse. At þe
 20 last he sozt & asked my help. And when I biheld his
 arme gretly bolned & replete of redenes & of brennyng &
 hardnez & akyng, ffirst I made hym ane emplastre of
 tartare of ale, i.[e.] dreggez, & of maluez, & hony, & salt,
 24 & bran, & schepeþ talowe boiled togidre to thiknez, &
 streched vpon stupeþ and folden wiþ a lynne clope. I
 put þe emplastre on his arme, and alsone he feled alege-
 ance of akyng. þe 3 day, forsoþ, remeuyn þe emplas-
 28 tre, þe bolnyng in party was slaked. Bot in þe buzt of
 þe arme al þe colleccion or gedryng abode stille, schewy-
 yng as it schuld gadre to ane heued. þe which y-sene,
 I putte to ane emplastre maturatyue of maluez y-sopen
 32 and y-brissed, wiþ grese 3 daies or 4, and neþerles I
 perceyued neuer þe soner for to be matured, bot þe
 bolnyng abode mych stil. And in þe buzt of þe arme
 þe skyne appered rounde wiþ diuerse colours to þe
 36 maner of a tode,² alwaiez denying tokne of rupture. And
 in þe ground or bothme of þat gedryng was felt ane
 hard þing, as it war ane nutte riȝt in þe buzt vnder
 a vena epatica.^a Which y-sene, I putte to al a niȝt ane

(leaf 155 (in
a different
hand))

Another
case of a
man who
was treated
by ladies.

Arderne
treated him
with a
plaster until
the swelling
subsided,

and after-
wards a
mallow
plaster.

¹ in flexu
brachii.

² ad modum
bufonis.

a—a "i.[e.] lyuer vayne" overlined.

The arm
blistered,

emplastre of coluer³ dong¹ & porris^a & garlek y-brissed
with þe iuyse of apii and a gode handful of salt. And in
þe mornyng remeuying it, þe place was ful of litle
bladders in maner of pustule³, and þer went out as it war 4
water; þis y-sene, where þe sore semed þikker I putte
vpon a clope schapen to þe brede of þe sore ane vnte-
ment made of blak sope and sulphure & of arsenec; aboue
pat, forsoþe, þe emplastre seid afore. þe second day, 8

¹ ex fimo
columbino.

and the skin
broke at the
place, dis-
charging
dark blood.

The arm was
rubbed with
lard and a
plaster put
on;

forsoþ, þat emplastre & oyntement remeued, þe skyn was
vtterly bristen, and þer appered a litel hole of þe arme,
and þer went out vnder blak water and holdyng in maner
of groute. þan I made putte aboue þat place chauyng 12
of lard; aboue, forsoþe, ane emplastre þus made. *Recipe*:
Iuyse of apii, wormode, Mugwort, netle, walwort, hony,
white of ane ey, ana, and tempred with mele of ry. And
if þou may noȝt haue al þise þings, þe iuyse alon of 16
apii^b with hony and white of ane ey and mele availeþ
mych. And þan bigan þe ded flesch for to disseuere,
And in þe arme wher war bifore þe bladders euermore
went out droppes of white watire when þe arme was bare 20
with-out þe emplastre. And in midde³ of þe more wonde
appered pappe³ of gret flesch; and euermore þer appered
(a certayne?^c)² rednes in þe skyn. To þe pappe³, forsoþe, I

it healed by
granulation.

² et semper
quidam ru-
bor in cute.

The oint-
ments used.

made sich a poudre; *Recipe viridis* [æris], vitriol, auripig- 24
mentum, alum ana; And I put it to ich oþer daie;
aboue þe poudre, forsoþe, I putte carpe, and at þe last
aboue þat I put a litel clouth to þe quantite of þe
wounde enoynted with vnguento fusco or albo or viridi. 28
þe rednes, forsoþe, and þe watry place³ I enoynted
with ane oyntement made of blak sape, and poudre of
sulphur; aboue, forsoþe, a dry lynnene cloute, whiche I
lete lye stille to þat it wold fall away bi it-self. And 32
þan þat place put away from it al dry skynne³; than eft-
sone³ I anoynted with þe forseid vntement vnto þat þe
rednes & þe water went vtterly away. þe forseid wonde,
forsoþe, was fully cured in þe forseid maner. Witte þou 36
þat þis anoyntment is best to al spotte³ or filpe³ of þe
skyn which giffeþ oute watre and makeþ redne³, for it

The patient
got well.

^a "leke³" overlined.

^b "smallach" overlined.

^c Obliterated.

drieþ mich and doþe away rednes in euery place of þe body, out-tak in þe eizen.

Bot witte þou þat after þe puttyng to of þe oynt-
 4 ment þat is þus made—*Recipe* sape, sulphur & arsenec
 —þer appered a blak litel cruste to þe piknes of a seme
 of a scho, þat was hard for to parte with þe forseid
 corrosiue; for it was mich ritted. To which I putte aboue
 8 a cautery, i.[e.] a brynnynge iren, þat þe pacient almost
 feled it noȝt. After þe cauteriynge forsoþe, I putte to þe
 schauyng of larde, as it is seid aboue, in sewyng al þings
 vnto þe ende.

[leaf 155,
back]

The cautery
used.

12 12. [A] man was smyten on his legge vpon þe shynbone,
 but neþerlesse þe skyn was noȝt cleuen¹ alson after þe
 smytyng. Afterward, forsoþe, þe prid day it bolned
 and bigan to ake. þerfor he went to a man þat haunted
 16 or vsed sich cure vnto þe tyme þat þer come in his
 legge ane hole, rounde and depe, and ful of blak filth in
 maner of brent flesch; whome whan he come to me I
 heled hym þus. ffirst I wasched þe wounde with hote
 20 wyne, or water in which was decocte þe croppez or þe
 iuyse of plantayne or sich, or in vryne. Afterward I
 putte to ane emplastre made of iuyse of playntayne,
 of rubarb, of smalach, of hony, and whete or rie mele &
 24 white of eyren y-medled togidre; or ane emplastre þat
 is called sanguiboetes. Afterward, þe place sumwhat
 mollified, I putte to poudre Creosferoboron, with þe
 medicine of arsenec y-medlet; aboue þe poudre stupe;
 28 or carp; aboue al-togidre, forsoþe, þe emplastre of apii,
 mugwort, walwort seid afore. After þe puttyng to
 forsoþe of þis poudre, I did þe cure in al þings with
 lard & with oper þings, as it is seid aboue, vnto þe
 32 clensyng of þe wounde. Afterward, forsoþ, with vn-
 guento viridi & vnguento albo and carp I wroȝt in maner
 as it is seid aboue vnto þe ende. Afterward, forsoþ, when
 þer growed or wex any superflue flesch in þe wounde, I
 36 withstode it or mette it with poudre of creosferoboron or
 of litarge vnto þe fulle curyng of þe wounde. If any
 pustule; wex in þe leg about þe wounde, þou may

A patient
knocked his
leg and an
ulcer
formed.

Arderne's
plasters

and stimu-
lating
powder.

He treated
the proud
flesh.

¹ "Broken" overlined.

Wounds with swords and axes must be treated like other injuries.

Bruises from the kick of a horse or from stones should first be scarified.

A patient's leg swelled suddenly on a Christmas-day.

Arderne fomented it,

and by cock-crow the patient was relieved.

The juice of marigold is very useful in inflammation of the breasts and in whitlow.

[leaf 156]

A prescription for tartar water.

cure þam with vnguento albo, as it is seid aboue. forsoþ if þe wonde be in þe leg of swerd or ax or sich oper, be it cured as ben oper woundes. If any man, forsoþ, be smyten in any party of þe legge 4 violently and without wondyng of þe skynne, as falleþ oft-tyme of þe smytyng of ane horse fote, or of a stone or of sich oper, þan is it gode sone in þe bigynnyng for to garse þe place y-smyten and for to draw out blode 8 þer-of, and afterward for to putte to emplastre; repressyng þe akyng and bolnyng.

[A] man in þe day of þe natiuite of our lorde sodenly had his legge gretly bolned fro þe kne to þe unklez, 12 with redenes and gret brennyng, so þat he myȝt noȝt stand. I (smeared ?)^a þe legge on ych side, and epithimated with þe iuyse of solsequi, i.[e.] marigold, and a litil vinegre putte þerto,¹ and made þam a litel leuke^b; þe which 16 I-do, lynnen clopes wette in þe same iuyse I laide warme aboute his legge, and when þe cloþe was dronken of þe iuse I laid hym in his couche; And for certayn afor þe cok kraw þe akyng and þe brennyng was cesed and 20 þe pacient rested wele. And within þre daies without any oper medicyne he was perfetely cured, whar-of many men wondred. Also for certayn þe iuyse of solsequii, marigold, epithimated bi it-self or with vinegre destroyeþ 24 meruelously apostemeȝ in þe pappes of wymmen, and þe felon,^c and þe carbuncle and zekyng,² and rednes, and bloneȝ, and brennyng þat comeþ of þe forsaid þings.

[A] chanon was on a tyme seke, and when he bigan to 28 wex hole þar was made a grete gedryng to-gidre of humours descendyng doune in his legge. After a tyme, forsoþ, þer wex pusceleȝ brovnysch and clayisch.³ He, forsoþ, putte þat he schuld dry þe puscheȝ watre of 32 tartar þus y-made: *Recipe tartari lb i or ij*, and putte it in ane newe erþen potte, and, þe mouþe of þe potte stopped with clay, putte it in a strong fire and lat it be þer a niȝt and a day or more if þou wiȝt. Afterward 36 tak þat tartar and hyng it in some place in a lynnen

¹ quem curavi cum succo solsequii addito parum de aceto et cum dicto succo tepido epithimavi tibiam suam unctis. [MS. Digby 161, leaf 22, back.]

² Pruritus.

³ pustule fuscae et latae.

^a Obliterated.

^b "warme" overlined.

^c "antrax" overlined.

- sacce or pokette, and vnder it putte a brasen vessel to receyue þe watre þat distilleþ droppyngly to þe maner of lye out of þe sak; þis watre is seid for to dry puscheþ wele, bot neþerlesse it availed noȝt to hym. At þe last, forsoþ, þer grow in þat party of þe legge a large wounde, And about þe ankles þre or four smale wounde; to þe brede of ane halfpeny. And þe legge semed of 8 ȝelow colour medled with rednes fro þe calf to þe ankelez, And þe skynne kast euermore out many skaleȝ. When, forsoþ, he had vsed a certayne tyme lede or puluer incarnatyue and sawe þat it availed hym noȝing, þan 12 he vsed a long tyme ane entrete þat is called *entracum nigrum*,¹ blak entrete, which is made of white lede and rede and comon oile and tartarye &c.; bot neþerlesse he perceyued none amending þerof, for it come to a mormale; þe which, when I had sene it, I affermed it to be a mormale. And I did sich a cure to it: þis is þe cure to þe mormale—ffirst sewe þe pacient legge strongly with a lynne cloþe²; After wasche wele þat legge so 20 sewed with hote watre, after þat þe pacient may suffre. And so after þe waschyng lat it lye by a naturel day, þat is ane hole day & a niȝt, kepyng þe legge fro aier and fro cold. þe second day, forsoþ, remoue þe cloþe 24 and mundifie þe wounde or þe woundes if þai be many, and putte in euery wounde a litel pece of lynne cloþe moisted in cold watre. Afterward putte of þe oyntment of dyuylyne in þe circuite of þe wounde³ aboue þe hole 28 skynne so þat it touche no waie; þe wounde; with-in, & couer it with a lynne cloþe y-wette. Do þus euery day tuyeȝ, renewyng þe oyntment and mundifying þe wounde; and fyllyng þam of a lynne cloþe y-wette, as it is seid 32 aboue. þis is þe oyntment: *Recipe coperose, sal nitri, a cineris geneste, a cineris b nigri testudinis, b atramenti, ana, parte 1; viridis greci* somewhat; Of quikke-siluer double to þe quantite of one of þe forseid; Of boreȝ 36 grese resolued at þe fire and mundified, þat sufficeþ. þan medle first þe ashes with þe grese, afterward þe toþer poudreȝ, and when þou hast wele ymedled, put it in a

The treatment of an ulcerated leg in a Canon.

Arderne diagnosed the case as mormale or inflamed sore on the leg.

His treatment by bandaging and very hot fomentations,

then cold compresses,

afterwards mercurial ointment,

¹ Quæ titulum confert de Dyuselyn.

² Primo consere tibiam fortiter et aliquantulum stricte in panno lineo.

³ Postea pone de isto unguento in circuitu vulneris.

a—a "aschen of brome" overlined.

b—b "of blak snaile" overlined.

and finally
Lanfrank's
ointment,

though he
had to use
the knife.

[* leaf 156,
back]

It is best to
cut away the
dead flesh in
an ulcerated
leg,

and then to
apply a
powder.

Lanfrank in
his book
gives advice
about the
cure of a
mormale.

box and it schal be blak oyntment. With pis oyntment, forsoþ, I cured fully þe gretter wondeþ of þe forseid legge, doying in þe maner seid afore; þe lesse wondeþ, forsoþ, cured I with vnguento viridi, i.[e.] grene oyntment of 4 lanfrank. þer was dede flesch of blo colour to þe brede of a peny; þat dede flesch, forsoþ, was mich pikke, and, þat y-se, I kutte with a rasour a litel þe ouer party of þat flesch; Afterward I putte to larde, and so at þe last with 8 larde & with cuttyng I dissolved, i.[e.] lesyd it vtterly. þat flesch þerfor remoue, eftsoner with þe oyntment of dyuylyn¹ aforeseid and a clope wette in water I held þe wounde opne to þe brede of a peny,² And þan eftsoner þer 12 brest out a wounde aboute þe sideþ, and it bygan to large it vnto þat it was almost of þe same gretneþ as it was afore.³ þat y-sene, I putted in four tymeþ poudre of litarge and anoynted it about with vnguento albo, and putte in þe 16 wounde a lynne clope wette in þe water of herb robert. Which cure semed to me more profitable, and sowded better þe extremiteþ and gloweþ⁴ þam vnto þe perfite halþe. * If þe mormale be euen aboue þe schyn-bone, pat it be 20 more sikerly and more sone cured it is profitable to cutte þe dede flesch and putte it away if þe pacient consent. And if it be cutte, alsone after þe cuttyng is to be putte in a cloute wette in whyte of ane ay al a nyzt. Afterward 24 putte in poudre of white glasse and of alum zucaryne, i.[e.] alum glasse, or alum plume or of boþe. And if þou se þe bone mortified, witte þou þat it is incurable or vnneþ for to merowe be cured. If þou trow it be 28 curable, it is to be helped with some cure of þe mormale in þe boke of lamfrank. Also, as it is seid aboue, som tyme a man is smytyn som party of þe legge violently without wondyng of þe skynne, as of ane hors fote or of 32 a stone or staffe or sich oþer, and þan is it gode sone for to scarific þe place y-smytyn and drawe þe blode þenneþ, and after put on enplastreþ repressyng akyng and bolnyng. ffor oft-tymeþ þe mormale comeþ of sich þings. 36 Agayne þe mormale be þer lesnyng^a of vena basilica, i.[e.] lyuer vayne, of þe rizt arme or on þe left; after-

¹ cum unguento de Dynelyn.

² usque ad festum Scti Matthæi Apostoli et Ecclesie proxime sequere operatus sum.

³ circa festum Scti Laurentii.

⁴ et conglutinauit.

^a "minnuschyng" overlined.

ward, if it be nede, of þe sophene. At þe last be he scarified^a in þe leggez.

14. [A] tretys of þe emoraidez, y-drawn out after lam-
 4 frank, a discrete maistre of þe kyngz of fraunce; which made
 tuo bokez of cirurgie, þe lesse and þe more. Also after
 maister bernard de gordon in his lillie. Also after maister
 bartelmow in his passionarie. Also after maister Richard
 8 in his Micrologie. And after maister Roland, and mayster
 Guy; And after Roger Bawn And maister Iamarcii,
 And maister Gilbertyne; And after oper experte men
 whos doctryne I haue beholden & sene, and which I haue
 12 founden moste experte in practizing, with helpe of our
 lord. I schal schew þam in þis boke. Emoroyz on
 greke is said flux of blode, and it is seid of emak, þat is
 blode, and rois, flux. Grekez, forsoþ, calleþ emoroyz
 16 flux of blode in what-euer parti of þe body it be; Bot
 anence latyne men¹ þis worde is appropriate to þe flux of
 blode of þe lure; And þe veynes apperyng in þe lure when
 þai flwe,² i.[e.] ren, and ar bolned and akeþ, þai ar called
 20 emeroydez, bot neþerlez vnproperly, sauand þe pece of þe
 comon puple. ffor when þai send out no blode, bot ar
 bolned, and akeþ, and ycheþ or smertep þai ar called
 by oper names anence lechez. Lewed men and vnex-
 24 perte men calleþ al þe infirmitez bredyng in þe lure
 emeroydez, or pilez, or fics. fFrench men calleþ emeroydez
 fics, men of London calleþ þam pilez. Neþerlesse it is
 nozt to strife agayneþ þe vse of spekyng, bot raper it
 28 spedep þat lered men and experte knawe þe maner of
 spekyng and vse it. ffor John Damascen seiþ 'It is
 heuy for to chaunge noying custom, and most if it be
 olde.' Neþerlez of þe name is no stryuyng whileþ þe
 32 sekenez bene knowen. Diuerse auctourez, forsoþ, hap
 putte diuerse names to þe sekenez of þe lure, and also
 þai haue assigned diuerse causes and spicez, And þai
 haue ymagined many maners of curacions; Of whiche
 36 some more profitable and ofter experte bene sewyngly to
 be noted vnder compendiousnez to þe vtillite^b of helyng.
 þerfor for to trete schortly it is first to witte þat þe

[leaf 157]
 A treatise
 on Piles.

Chiefly a
 compilation.

Etymology
 of the word
 Emeroids.
 The Greeks
 use the word
 in a more
 general
 sense than
 the Latin
 writers.

The un-
 learned call
 everything
 piles.
 Frenchmen
 call piles
 "figs."

but there
 nothing
 much in a
 name if all
 are agreed
 as to the
 condition.

¹ Apud
 Latinos.

² quando
 fluunt.

^a "garsed" overlined.

^b "i.[e.] profite" overlined.

Varieties of
piles:

"the deaf
piles" of
Avicenna.

Condyloma-
mata, why
so called.

The cause of
condyloma-
mata;

their appear-
ance.

Verrucae,
their causes;

the symp-
toms of the
inflamed
variety:

of the
chronic
form.

Piles due to
congestion.

emeroide; if þai sende out blode þai ar seid ryztfully
emeroyde;. If þer appere, forsoþ, in þe lure bolnyngs
blo or blak, or redne; to þe quantite of a bene or gretter,
þat is to þe quantite of a testicle of a cok or of a hounde, 4
as I haue oftyme sene, som tyme occupieng þe to half of
þe lure only, and som tyme boþe, sich bene called of
Avicen deaf emeroyde;, for þer rynnep noþing out of
þam. And sich bolnyngs forsoþ, if þei be gretter, 8
puttyng out no blode, þai ar called condilomata, of con-
dilo of greke, þat is þe closed fist of a man. Condilo-
mata, forsoþ, schewep þe schappe of a fist y-closed,
And condilomata bredeþ of gret malicious or malencoli- 12
ous blode. After lamfrank, forsoþ, þe lesse bolnyng; if
þei be blak or blo þai ar called attritos,¹ or atreos, for þe
blak colour of þam. If þai be rede þai ar called uve,
i.[e.] grape;, and þai haue þe schap of a rede vyne or 16
grape. And þai þat bene of blode and of colre ar called
morale;,² and þai ar like to mulberie; when þai bigynne
to wex rede. And som bene called verucale;,³ for þai ar
like to warte;, and sich hap þair bygynnyng of malen- 20
colye. And som bene of blode, þof it be bot seldom,
which ar called fics,⁴ If þai be made of ventosite⁴ with
grete strechyng of þe skyne. Al þe forseid may be
reduced vnto tuo þings: Oup̄er of hotene; of humours, 24
or of mych aboundyng of blode. If þat hotene; be in
cause, þat is blode and colre, pise schal be þe signe—
brennyng with greuou prikkynge, and smertyng, and vn-
slepyng, and som tyme with ychyng in þe lende; and 28
with tenasmon and gret costyuene; of þe wombe, and
þrist, and feblene; of goyng. Signe; of cold cause, þat
is of gret blode and malencolious, bene pise—bolnyng
with hardne; and derkne; and akyng—bot not scharp as 32
of hote cause—þe colour of þe bolnyng blo or blak,
smertyng in þe lure, with lousene; of þe wombe and
akyng, and greuoune; or heuyne; of þe pie;. Signe;
if þe em[er]oide; be of multitude of blode bene pise, þat 36
is to sey of þe veyne; apperyng in þe legge;. And if

¹ "blake;" overlined.

² "mulberie;" overlined.

³ "warty" overlined.

⁴ "after gordon, and þai ar as war white bleeders" overlined.

pai ren, þat pai ren mych & oft-tyme, and þat þe
 pacient be of sanguyne habitude. ffor why; in þam is
 multitude of blode * þat vseþ not fleebotomye, and þat
 4 drynkeþ copiously and oftymeþ wyne, and þat eteþ
 scharp pings, as onyons, lekeþ, cauleþ, comyne, and þat
 takeþ medicynes apertyueþ of veynez,¹ as bene scamonye
 i.[e.] aloe and euforbium, as wittenesseþ all auctours
 8 togidre and experte men. Emeroideþ ar caused of malen-
 colious blode, which is þe fece of clene blode aboundand
 in our body; which blode, forsoþ, for his yuel qualite
 and odious to nature, discretyue vertu enforceþ for to cast
 12 out to þe helpyng of al þe body, helpyng þe vertu ex-
 pulsue of al þe membreþ togidre. And so þurþ þe
 strengþe of nature it is putte out fro þe vayne kilyuz,²
 þat lieþ to rig-bone of þe bak, which properly is recep-
 16 tacle of malencolious blode. Which kylis, forsoþ, is
 diuided into fiue brancheþ þat bene ended about þe
 party of nature^a; which veynez, forsoþ, when pai ar
 som tyme filled of melancolious blode pai distende, i.[e.]
 20 strecheþ, so þe veynez þat ouper þe blode bresteþ out or þer
 ar gendred bolnyngþ of diuerse spiceþ and schapeþ. And
 also oper sinthomata,³ i.[e.] perileþ, as scharp akyng and
 prikyng, brynnyng, ychyng, smertyng, thenasmon, i.[e.]
 24 inordinate appetite of egestion, with ful mich enforsyng
 and neþerlesse he may do none egestion whan he comeþ
 to þe pryue. If, forsoþ, þe blode brist out it is called
 þe emoroydeþ; but if þat it flowe temperatly it dop
 28 many helpyngs and preserueþ þe body fro many sekeneþ
 aduste and corrupte, as is Mania, malencolia, pleuresis,
 lepre, morfe, ydropisy, mormale, quartane, passions of þe
 splene, and so of oper like. Bot as it preserueþ fro
 32 pise when þat it fleweþ temperitely, so when it is
 wont for to flewe and afterward ceseþ vtterly al þe for-
 seid sekeneþ ar gendred. Also when pai flewe ouer
 temperance þai bene cause of ptisyk or of ydropisy.
 36 Wherfor seiþ Galiene and ypocras after lamfrank 'Ich
 long lastyng and ouermych puttyng out of blode is moste
 myzty cause for to make ydropisy.' þerfor in þam in
 whome malencolious blode is multiplied temperite fluyng

[* leaf 157,
back]
Those who
are subject
to conues-
sive piles.

The cause of
piles.

The path-
ology of
piles.

Anatomy of
the vena
cava.

Symptoms
of piles.

Uses of piles
when they
only bleed
moderately.

^a "i.[e.] lure" *overtined*.

¹ et medi-
cinas vena-
rum aperiti-
vas sumunt.

² κοίλυν
vena cava.

³ Sympto-
mata.

What constitutes moderate bleeding.

of blode of þe emeroydeȝ helpeþ mych, ne it is noȝt vtterly to be restreyned. It is called temperite vse when þe pacientes felep þamself more lizt þat þai war wont¹; hauyng better appetite, and etyng and slepyng more⁴ swetely or softly, and sich oper. Bot when þe pacientes felen þamself more heuy, and þer schewe malice of appetite and foule colour of body, þan is þe flwyng ouer mych; wherfor it is alsone successuely to be restreyned⁸

¹ cum patientes se sentiunt leviores solito et melius colorati.

How to stop the bleeding from piles.

and turned away. þerfor siþe þer is noȝt a litel hardneȝ in restreynyng of þe emeroideȝ, þerfor many þings ar be noted of þe restreynyng of þam; þat is to sey þat þe leche wytte wheþer þe flowyng be done¹² of anathemasy or of diabrosi or of rixi; þat is wheþer þe flowyng be made of opnyng of veyneȝ, þat is called anapemasis; or of fretyng of þe veyneȝ, þat is called diabrosis; or of cleuyng or twynnyng, þat is¹⁶ called rixis. þerfor if þe blode ybroȝt to þe lure be aduste—for when blode is aduste it is scharped²—or if false flewme or colre be medled, þan oft-tymeȝ þe veyneȝ ar freted and þai make þe fluxe. And for certayne sich²⁰ flux is of hard restreynyng. ffor why; þe substance of þe veyne yfreted may noȝt be *sonded³ with-out disese and heuynes, siþe þat it nedep a medicyne corrosyue.

² quia cū sanguis aduritur acuitur.

[* leaf 153]

³ non consolidari.

The impatience of the present generation.

And men now-of-daieȝ bene vnpacient and yuel tholyng,²⁴ And for-þi flowyng of diabrosi^a is of hard curyng. And þe secondary is rixis^b which also is cured with corrosyueȝ in þe bygynnyng. Anathemasis^c is more liztly cured þan þe oper, bot perauenture noȝt without corrosyueȝ.²⁸ þis I sey, if þe flowyng be olde, Anathemasis is made for aboundance of blode or for ventosite descendyng doune. Rixis, forsop, is made of ouer myche dryneȝ, of cause within-forþe or of cause without-forþe, or of hardneȝ³² of filþeȝ,⁴ or for ane hote aposteme, or any scharpe flowyng.

⁴ ex duritie sacum.

Bleeding piles are often concealed piles.

Also flowyng emoroydeȝ somtyme ar hidde within, without any bolnyngs schewyng outward, þat of som þai ar demed to be dissenterikeȝ and yuelȝ wrong.⁵ ffor why, in³⁶ þe inward emoroideȝ first goþ out egestion and afterward goþ out blode with egestion to-gidre. In ciliaca passion, forsop, goþ out blode and afterward egestion. Ciliaca

⁵ quæ a quibusdam judicantur dysentericæ et malæ.

^a "fretyng" overlined. ^b "clyffyng" overlined.

^c "opnyng" overlined.

¹ aut ratione
membra aut
virtutis.

passion is akyng of þe wombe with puttyng out of blode
sewyng. Also after gordon, *scilicet* de morbo, 'In euery
þing þat goþ out of þe body bene 3 comon causez;
4 Ouper by reson of þe membre, or of vertue,¹ or of
humour. If it be bi reson of þe membre, þat is for þe
membre is ouer pinne. If it be for vertue, þan it is
for vertue retentyue is feble, and vertu expulsyue strong.
8 If it be for humour, þat is for ouper it is malencolious
or for it is scharp, or subtile, or watrye. Also emoroidez
ar caused of scharpnes of blode and ouer mych hete
brennyng þe blode, as in colorik men þat bene of hote
12 nature; for blode when it is brent it geteþ scharpnes, as
it is seid afore. Also ouer mych flowyng of blode is
made ouper for multitude of blode, as in þam þat
drynkeþ mych wyne or oþer metez or drynkeþ þat
16 multiplieþ blode, or in þam þat bene sangyne com-
plexion. Also it is made for yuel qualite of blode, as for
it is ouer scharp or subtile or watry, as in þam þat vseþ
rawe fruytez, ffor raw fruytez gendrep watry blode. þe
20 causes, forsoþ, y-knowen, propre cure may be done to.
Signez of dedly flowyng bene þise, þat is to sey:—
fflowyng of blode bryngyng to swounyng is mortale^a;
Also flowyng of blode with coldnez of extremitiez is mor-
24 tale; Also flowyng þat comeþ sodeynly and with
hastinez is mortale; Also flowyng of blode þat bryngeþ
to pale colour, or grene, or blo, or browne is werst and
mortale; Also quantite of blode passing 4 pounde is yuel,
28 and if it come to 24 it is dep. fflowyng of blode with
liztynyng of þe body is gode. In þam þat poleþ
emoroidez þe vryne schal be in colour remissed white
with powdry resolucions blak or blo residentez in þe
32 bothme of þe vessel. After Egidi de vrinis, white and
remisse ow for to be of malencolious blode ouer abundant
in þe body, wherfor naturel hete is febled. ffor why;
digestion waxeþ raw, and of rawnes of digestion is þe
36 vryne discolored, * And it appereþ with poudry resolucions
which bene resolved of malencolious blode blak and erpi
aboundyng, and by contynuel waiez þai ar drawn to þe
bladdar and putte out with þe vryne. And for þai ar
40 heuy and erpi þai satle in þe grounde. þe same vryne

They are
to be dis-
tinguished
from dysen-
tery and
passiolliaca.

Bernard de
Gordon's
Lilium
Medicinæ
quoted.

Piles are due
to an excess
of blood,

to eating
and drinking
too much,

to diseases
of the blood.

Danger
signals in
bleeding
piles.
Sudden
onset.

Pallor.
Great loss.

Quotes
Gilles de
Corbeil de
Urinis.

[* leaf 158,
back]

^a "dedly" overlined.

How noli-me-tangere and lupus are produced.

The blood is not confined.

Choler and melancholy are cribbed in the gall bladder and in the spleen.

The signs of melancholy.

Treatment of bleeding piles by herb pills.

Phlebotomy is best in the overfed and idle whose piles bleed.

also may betokne in men vice^a of þe splene, and in wymmen withholdyng of menstruez. And witte pou þat after gordon in 'clarificacione de vicio splenis' þat innatural humours may be gendred in oþer place þan in 4 þe lyuer, as in þe stomak colre peassyue,¹ i.[e.] grene, and also colre eruginous, of which is gendred 'noli-me-tangere,' and lupus. And also in þe veynez ar gendred vnnaturale humours. Bot þe splene haþ no vertu of gendryng 8 anyþing, siþe it is noþing bot a receptakle of malencolie, which is ane odious humour to nature and to al membris of þe body for his yuel qualitez. Also witte pou þat þe blode hape nouþer house,^b ne receptakle, ne prison; 12 but colre and malencoly haþ prisons, þat is to sey colre in þe chiste of þe gall and malencoly in þe splene. Also witte pou þat if þe pacient of emoroidez be of malencolious complexion, þise bene toknez:—smalnez^c of 16 body, discoloured, erpi, angry, waike of hert, heuy, and only ferþful and couaitous. And witte pou þat if þe forseid pacient sende out blode blak and pikke and stynkyng, þat þis flowyng is nozt to be restreyned, bot if 20 it ouerflowe & þe pacient be febled. In euery-þing, forsoþ, þe vertu of þe body is to be kept bifor al oþer þings. Agaynz þe flowyng of þe emoroidez distempre pou moste subtile mele of whete, with iuyse of millefoile, 24 and make þerof pillulez, and giffe hym euery day in þe mornyng 3 or 4 of þam distempered with wyne of decoccion of millefoile, or plantayn, or burso pastoris, or rede netle, or paruencis. Bot if þe pacient be of san- 28 guyne complexion, and lifyng delicately and in ydelnez, and blode be aboundand, þan þof þer be sych flowyng it is nozt to be restreyned bot if it ouer flow, þat is knowen by þe toknez aforeseid. þerfor if þer faþ ouer 32 mych flowyng, it is spedeful þat it be restreyned; for, after galien, blode is norischyng of al membrez, als wele of sadde as of softe, and al haþ bigynyng or spryngyng of blode; and for-als-myç it is seid þe frende of nature, 36 þerfor if þe frende be destroyed þe enemy waxeþ mizty. þerfor, after gordon, to þe curyng of þe emoroidez is flebotomy competent, if vertu and age suffre it,

¹ prasina.

^a "sekenes" overlined.

^b "duellyng" overlined.

^c "or lenez" overlined.

- bope for it avoideþ matery goyng afore, and also it
 withdraweþ þe matery to þe contrary.^a And flebotomy
 ow to be done of þe basilic veyne of þe arme for mater
 4 goyng afore, and afterward of þe sophenis at þe hele, þe
 vtter sophe turneþ þe flowyng of þe emoroideþ and
 restreyneth þe emoroydeþ for euermore. Whiche fleo-
 botomy, forsoþ, continued * fro 3ere to 3ere, and namely
 8 about þe fest of seynt Micheþ, bifore and after oneþ or
 twieþ, or when-someuer þe pacient feleþ tyklyng or
 ychyng or prykyng in þe lure, þan be he minusched as
 it is afore seid, and alsoue he schal be cured. Also witte
 12 þou þat fleobotomye of þe inward sophenis of þe legges
 prouokeþ þe emoroideþ and menstueþ; And of þe vtter
 sophenis streyneþ þe emoroideþ and menstueþ, and pre-
 serueþ for certayne fro þe forseid passions. Sopheneþ
 16 bene þo grete veyneþ þat ar stretched fro þe kneeþ vnto
 þe ankleþ of bope partieþ of þe legges. þe maner of
 doying of pis fleobotomye is þat it be done about þe
 hour of euensong or latter, þat is in þe regnyng of
 20 malencolious blode, þat is fro þe 9 hour of þe daie
 vnto þe 3 hour of þe niþt. Also witte þou þat fleo-
 botomye to be done vnder^b þe hele and in saluatella of
 þe handeþ, oweþ noþt to be done with a blode iren bot
 24 with a lancete, for hurtyng of þe syneweþ, but if þat
 nede make it. Also witte þou þat he þat schal be laten
 blode oweþ for to putte his fete in hote watre, and eft-
 sone þam owe to be putte agayn, þat þe blode go out
 28 better; And þe pacient ow to abide still in þe watre,
 vnto þat þe blode þat appered first blak chaunge into
 fairer colour. Be pis doctrine boldly kept, for if it be
 noþt done competently it profiteth noþing or litel; ffor
 32 certayne I haue cured for euermore, with on latyng blode
 al-only of þe vtter sophene, many men þat poled þe
 emoroideþ many 3eres, vnto þe feblyng of þe body.
 Bot witte þou þat, after gordon, þat þof-al fleo-
 36 botomye make blode fluxible, neþerlesse if it be done
 of þe vtter sopheneþ it draweþ þe flowyng to þe opposite;
 and so it makyng¹ þe flowyng for to be turned fro
 þe lure þat it flow noþt to þe costumable place; and
 40 forþi it profiteþ to al þat ar cured of þe emoroideþ,

Blood to be taken either from the basilic vein or the external saphenous.

[* leaf 159]

The bleeding should be annually about Michaelmas.

Bleeding from the internal saphenous had for piles and menorrhagia.

Anatomy of the saphenous veins.

Evening is the proper time for phlebotomy.

Treatment after phlebotomy.

¹ et ita facit.

^a "opposite" overlined.

^b "at" overlined.

The patients
should be
let blood
once or
twice every
spring and
autumn even
though their
piles be
cured.

The patient
must be
purged be-
fore he is
bled.

Myrobalans
is the best
purgative
in piles ;

[* Leaf 159,
back]

raisins and
liquorice
may be used,

and also to al pat ar disposed to þe emoroide³, for
to be laten blode of þe outward sophenis, one³ or tuye³
in ver and also ofte in autumpne fro 3ere to 3ere. ffor
why; sich fleobotomye for certayne *preserueþ* fro þe 4
emoroide³, and avoideþ paciente³ fro al yuel humours
and kepeþ þam in hele. And *per* be no blode-later redy,
be *per* made ventosyng with garsyng atux þe buttoke³ at
þe rigebone ende or aboue þe veyne³, for it doþe þe same 8
pat þe forseid fleobotomye, bot noȝt so expertly, bot nede
habe no lawe. ¹ And it is to witte pat if þe leche may
gette þe riȝt reule by al pings in euery wirching after
crafte, fleobotomye owȝt neuer to be done in þe emoroide³ 12
byfore purgacion y-done, and þan sewyngly mynischyng.
Also after gordon, in ouer mych flowyng of þe emoroide³,
and also of menstroe³, is competent a medicyne laxatyue
to purge corrupte humours þat induceþ þe flowyng, þat 16
þe cause cesyng, þe effecte cese. To which þing to be done
al þe mir[obalan]^a [con]ouenient ffor mira-
bolan laxep afore þam and streyneþ after þam^a
and þai avoide al yuel humours. þerfor be þai preparete 20
.^a decocte byfor þat þai be taken, for bi
decoccion þair^a
*and so þe strength of laxatiueyng shuld be febled, bot
þai ow to be resolued in rennyng liquore, as in mylk or 24
whey, with racyns & liquorice, elle³ walld þai schrenk^b
þe stomake and lefe yuel tokene³ byhynd^c þam; and so
of þe racyns and of þe liquore ar þai reuled þat þai bryng
in no harme. Which, forsop, resolued and þe kirmelle³ 28
cast away, lat þam lie al a niȝt in þe same liquor, and in
þe mornyng þe colyng be giffen to drynk. þis medicyne,
forsope, of mirobolan is ful noble, siþe it purgeþ humours
of niȝt place³, þat is citrine³ colre,² kebuli³ fleume,³ Indi 32
malencoly, i.[e.] blak colre, bellerici and emblici colre
aduste. And so may al þe humours be purged; wherfor
be mirabolan hadde in reuerence, ffor þai availe mich to
þe emoroide³ and menstroe³ to be purged. And þis medi- 36
cyne for certayn cureþ euery flux of þe wombe, þat is to
sey diaria, dissenteria, liencaria. Also it is to wytte þat

¹ Ad quod
faciendum
myrobalani
sunt mul-
tum con-
uenientes,
quia myro-
balani ante
se laxant,
et post se
constringunt
hoc est
comprimen-
do laxant et
eos humores
males evacua-
nt. Myro-
balani,
autem, hoc
modo præ-
parentur:—
Non debent
myrobalani
decoqui
antequam
fumantur,
quia per
decoctionem
eorum gum-
mitas in
fumum re-
solueretur
et sic vis
purgandi de-
bilitaretur.

² citrini
choleram.
³ kebuli
flavam.

^a A portion of the leaf is missing. ^b "ronkle" overlined.

^c "after" overlined.

- in pacientz of þe emoroidez be per neuer giffen medicynez apertyuez of veynez nouþer be þe mouþe, as scamonè, or aloe, or euforbium, comyn, lekez, onyans, garleke and sich
- 4 oper scharp pingz; ne be þar nozt putte open þe place, out take aloen and comyn, which tuo, putte outward, streyneþ, and with-in-forþ taken opneþ veynez. Bot it is to wytte þat in þe forseid fluxez of þe wombe miraboland ow to be
- 8 dissolued in gote mylk,¹ if it may be had, or in iuse or water of fumitere or of playntane, or in rayne water or rose water, or of veruene, or of anoper stiptike herbe as millefoile or mynte. Also witte þou, after al auctours,
- 12 þat pose pings þat restryneþ emoroidez restreyneþ menstreez, and *econverso*; And þe same sekenez þat comeþ of þe vice of menstruez, comeþ also of þe emoroid, & *econverso*; and so by sewyng^a þat þai acorde in cure. þerfor in cold
- 16 cause be þai giffen^a þat hetep and ingrossep þe mater of flowyng of blode, als wele of þe party of metez as of medicynez. Of þe party, forsoþ, of metez be þer giffen milk, mele of whete decocte, frese benez, with canel, gret
- 20 wyne, rise² and mynte. Of þe party of medicyne be þer giffen note of cipresse³ and þe lefez, mirre, thure, mastike, ladanum, storax calamita, anyse rosted, and sich oþe. And excercise and strong frotyngs and swetyngs availeþ.
- 24 And if þe causo be hote, be þer giffen lentes^b with vinegre, porcelane,⁴ sour milk, soþen barly brede, substance of colez þe tuo watrez⁵ þat it is decocte in y-cast away, perez, coynceþ⁶ & meldez,⁷ & sich oþer. Medicynez restrictyueþ
- 28 bene pise; Camphore, accacia, spodin, coriandre, sanguis draconis, sandali, lap[is] omoptoes,⁸ bole armoniac, ypoquistid,⁹ gallez cupule, sumak, mirtett,¹⁰
^c plantane, cincofoile, quinqueneruie, ribbewort,
- 32 bursa pastoris, millefoil,^c forsoþ

but never
scammony
or aloes.

The myro-
balans may
be given in
goat's milk.

What is good
for piles is
equally good
for menor-
rhagia.

Remedies to
be used in
the treat-
ment of
piles.

¹ dissolvi
in lacte
caprino.

² cum farina
tritica, faba
fera cum
cinnamomo,
vinum
crassum,
rute.

³ nux cu-
pressi.

⁴ Portulaca

⁵ caulis dua-
bus aquis
abjectis.

⁶ Mespila.

⁷ Cotonea.

⁸ hænat.

⁹ Hypo-
quistidos.

^a "it folweþ" overlined.

^b "growel" overlined.

^c A portion of the leaf is missing.

¹⁰ The Latin text of this mutilated passage runs:—*psysidæ, balaustia, plantago, quinqueneruia, sanguinaria, millefolia et similia. Corpore ergo patientis hæmorrhoides sine menstrua superflua existente pletharico i.[e.] pleno sanguine ex virtute forti præ ceteris attendendum est ut in initio phlebotomia fiat de utrâque basilica brachii. Deinde mulieri menstruosæ ponantur ventosæ magnæ sub utrâque mammillâ. Deinde mundificetur secundum exigentiam humorum peccantium. Deinde liga brachium ligatura dolorosa. Deinde fiant localia remedia. Et id quod intelligendum est, &c.*

of þe pacient; emoroide; or menstroe; beyng plettorike . .
^o beyng strong. Which is to be take hede to
 afor al oper þings^o
 fleobotomy of basilica of bope þe armes. 4

[leaf 160]

Local appli-
 cations for
 piles.

Styptics for
 piles.

Concealed
 piles lead to
 ulceration of
 the rectum.

Delicate
 men are
 usually
 timid.

And it is to vnderstonð þat þis is wont to availe 'aboue
 al oper þing; *Recipe* Iuyse of plantane, muscilage
 dragaunte & gumme arabic; be þai medled to-gidre, and
 o party be take be þe mouþe and anoþer be cast in by a 8
 clistery; and be þis continued, and without dout it schal
 cure perfitely, vniuersale purgacions goyng afore, after
 barnard gordon. Also corall brent and gumme arabic,
 y-medled and y-dronke with cold watre, streyneþ þe flux 12
 of blode, of what place so-euer it floweþ. Also caneþ
 haþe þis *propirte*,¹ þat if þer be take of it to þe wezt of 2
 penyys eueryday with cold water, it streyneþ at þe best þe
 flux of emoroides & of menstroe. And if þe forseid 16
 pouðre be giffen with watre of plantane it schal be more
 effectual. Also vitriol, i.[e.] coprose, streyneþ þe flux²
 of emoroides and drieþ humours, if it be made with Iuyse
 of moleyn, or of plantayne, or verueyn, or rubarbe, i.[e.] 20
 sengrene; ffor why; of þe medlyng of þe iuyse of any
 of þe forseid cold herbes þe hete of þe vitriol is repressed;
 wherfor it constreyneth with drinez. Bot it is to wytte þat
 þe emoroide; hid with-in þe lure³ ful seldome bene made 24
 without fretyng of longaon or kynnyng^a of it, And
 þerfor certaynly sich maner emoroyde; may nozt perfitely
 be cured bot with a medicyne cauterizatiue, as is vitriol
 combuste be it self or medled with quick-lyme, in a grete 28
 case, þat is in a grete fretyng. Also puluis sine pari in
 þis case putte in heleþ wele, bot disesily or angerfully; bot
 þat is nozt to charge.⁴ ffor to a strong sekenez answereth a
 strong medicyne, and namely in strong men. I calle, forsoþ, 32
 delicate men feble men. ffor al þing; bene hard to a waik
 hert man. To a strong hert man, forsoþ, is noping grete.
 To emoroide; hid within þe lure, wheper þai be with fret-
 yng or clyffing or without, þe most noble cure schal be 36
 ich day to caste in in maner of clistre, or ich oper day, al

¹ Item cin-
 namomum
 habet hanc
 proprietate-
 tem,

² cum succo
 tapsibarbatō

³ sine
 corrosione
 longaonis
 & ejusdem
 fissurā.

⁴ sed de hoc
 non est
 notandum.

^o See note on page 63.

^a "cleuyng" overlined.

- medicynes3 temperatly liquide in substance with a schort
and no maner streit nastar of tre. To strong men perfor
tak puluis sine pari, and medle it with a litel tapsimel,
4 nouper to pinne ne to pikke, bot pat it may most com-
petently be pristed out and zetted into þe lure. If forsop
þou haue nozt tapsimel, in-stede of it tak hony cotted
with a litel vinegre and scomed, and medle it with þe
8 forsaid puluis, and vse it, for it euenly availeþ as tapsimel.
If þe pacient, forsop, be delicate, þan tak of citrine oitment
parte 1, vitriol combust. partes ij, alom zucarine als mich
as of bope, and be þai medled to-gidre and zetted in: þis,
12 forsop, wirkeþ nozt so violently as puluis sine pari for þe
vertgrez þat entreþ not here. ffor-sop when þou has
done pus onez, or tuyse, or prise, after as it falleþ þe
pacient for to withhold þe medicyne long or schort tyme,
16 It bihoueþ þan for to chaunge þe cure and giffe clistere3
mitigatiue3, of zolk of an ey, with oile of roset, and puluis
of bole armoniac, and aloes epatici, or sang dragon, by 3
daies or more. When þe pacient, forsop, feleþ hymself
20 aleged, þan assaye bisily wheper þe inner place nede ony
maner of þe first medicyne, i.[e.] of þe puluis with tapsi-
mel, þat if it so be, be it eft-sone3 done, as it is seid afore,
als oft as it is nede; Afterwarde be it mitigate, as it is
24 seid. When þe place, forsop, is mundified, þan be it
heled with þe zolk of an ey & water of roset, in which be
resolued gumme arabic, addid þer-to puluis bole, sang
dragon, ceruse, aloes, galf, psidie, mumme, olivai¹ mastike;
28 *and þe lure first enoynted within with lynesde oile & oile
of roset, þe forseid medicyne be zetted in with a nastare
and so continue it vnto þe last ende, or on like maner
after þin owne witte & bisines. And witte þou pat
32 when þer is putte vitriol, or puluis sine pari, or any
puluis corrosiue within þe lure aboue fretyng3 or cliffyng3,
þan aboue þe puluis corrosiue owe bole armoniac to be
putte, for to defende þe puluis corrosiue þat þe humidite
36 in þe lure quench nozt & wesch away þe puluis corrosiue.
ffor why; bole with his drynes and viscosite consump
þe moistenez, and vitriol wirkeþ better and more strongly.
If, forsop, þou haue no bole, þan putte most smal meel
40 of barly in his stede, for it is rízt mich desiccatiue. þise

A strong
local remedy
for piles.

A milder
remedy.

Examine
the rectum
as soon as
possible.

Cleanse it
with an
ointment
and get it
healed.

¹ olibaní.

[* leaf 160,
back]

Vitriol is
better than
bole ar-
moniac.

Nettle juice
is a good
remedy to
stop bleed-
ing.

The hairs of
a hare and a
powder of
burnt hen's
feathers are
both good
to stop
bleeding.

Tinder, too,
is good.

Acupressure
stops bleed-
ing, and so
does the
cautery.

The applica-
tion of cold
is a styptic.

Clay with
vinegar may
be used.

þings restreyneþ blode : ventosing putte with scarificacion,^a
putte ex antipasi,^b and mirre, and Iasper of grene colour
hauyng in itself naturale droppes of blode, Saphir rede
coralle rubye,^c and fyne of wilde swyne. Also þise 4
restreyneþ blode, of þe vertu of þair qualiteȝ : Iuyse of
walwort, Iuyse of rede netelt broken^d with al his sub-
stance, salt y-put þerto. Or Iuyse of nettel y-dronkyn
restreyneþ blode in euery place of þe body and of euery 8
cause,^e and in boþe kynde.^e Bot it is to wytte þat to a
woman in menstreeȝ and to þam þat haueþ þe emoroideȝ
owe þe rote of it to be giffen with þe cropez of þe same²
3 daies continually, with rayne watre or rennyng watre. 12
Also of þam þat restreyneþ blode bene þise : Mummè, bole
armoniac, sang dracon, thure, aloe, vitriol combust, puluer
of heres of ane hare, brent or noȝt brent ; puluis of henneȝ
feþers brent, medled with white of ane ey ; Alphita, i.[e.] 16
subtile & clene meel of barley³ ; Also a been clouen by þe
middeȝ and putte vpon a wonde and bounden faste,
streynep.⁴ Bot þis haþe no stede bot to so streyt a wounde
þat þe been may take within his extremiteȝ þe extremiteȝ 20
of þe wounde, as of prikyng of a smal knyfe or sich a
þing. Also aschen of ane olde lynne cloþe y-brent streynep
blode ; þe white of an ey and barley mele y-putte aboue or
withouten. Som-tyme it bihouep for to bynde þe heuedeȝ^f 24
of þe veyne with ane nedel putte vnder þe veyne, and after
for to bynde with a prede aboue þe nedel. Som-tyme it
byhouep for to cauterize þe wounde with an hote iron.
Also blode is stopped with coldyng of þe membre y-hurte, 28
wherfor oft-tymeȝ is blode restreyned in som men with
oneȝ drynkyng of colde watre. And som men putteþ þair
testiculeȝ in cold watre ; And som men lappeþ þair testiculeȝ
in clay with vinegre or watre, or temperate with iuyse of 32
plantayne ; And þis is profitable to þam þat bledeþ at þe
nose. And it is better if þe fronte and templeȝ of þe
patient be emplastred of þe forseid clay, and also if it be
putte vnder þe armeholes ; þis, forsoþ, quencheþ þe feruour 36
of blode and draweþ to þe opposite. Also puluerȝ y-putte

1 corallus
rubri, et
stereus porci
campestris.

2 radix
ejus cum
summitate
ejusdem.

3 Item faba
per medium
fissa.

4 sanguinem
stringit.

^a "garsing" overlined. ^b "on þe contrary" overlined.

^c "rubye" has been crossed out.

^d "brissed" overlined.

^{e-o} "i.[e.] of man & woman" overlined. ^f "endeȝ" overlined.

¹ Pulvis ex
pilis leporis
combustus.

² Item facit
porrus et
succus ejus,
item folia
tapsi-bar-
bati.

³ Item suc-
cus ebulæ.

⁴ cum sum-
mitatibus
tapsi-bar-
bati.

⁵ anthæ.
⁶ et cribran-
tur.

in þe nose may more strongly streyne & availe. * Puluer
of here3 of ane hare y-brent¹ aboue alþings streyneþ þe flux
of þe emoroide3, y-medled *with* white of an ey and *with*
4 here3 of ane hare nozt y-brent; coton of softe stupe3
y-putte aboue. And som men *with* þe forseid puluer
alon and þe white of an ey anoynteþ þe emoroide3 *with*-
out puttyng to of coton, and alsone cesep þe flux and
8 þe akyng. Witte þou þat aloe and comyn, recepte bi
þe mouþe, opneþ veynez; and putte to *with*-out-forþ
restreyneþ.² þe same dop lekez and þe iuyse of þam þe
lefe3 of moleyne y-brissed and put to *with* þa white of
12 an ey streyneþ þe emoroides and heleþ þam sone. Also
Iuyse of orpyne³ y-dronken *with* wyne heleþ al fics,
without and *within*; wherfor it is called fics-herbe.
Also lana succida y-dipped in þe iuyse of porrez,^a þe
16 lefe3 remoued away, and hote putte to bolned emor-
oides, and when it is colde eftsone3 renewed, and oft
tyme3 so y-done, it is a certayne remedy agayns þe
bolnyng of emoroides; And if puluis of comyn be putte
20 þerto, it schal spede better. To emoroide3 y-bolned and
apperand as war a chykn torde, brisse wele blak sope
with þe tendrons of moleyne⁴ and putte vpon; and þe
þrid day þai schal nozt appere. Oile of violette *with*
24 white of 3 eiren well stired to-gidre and putte to, on a
wonderful maner mitigateþ þe akyng and brynnyn of
þe emoroide3. Agayn3 ouer mych flux of emoroides and
of menstreeþ þe best medicine constrictiue and desiccatyue
28 is made on þis maner. In þe best lumbardez ynk be
dissolued a gode quantite of gumme arabie; which dis-
solued putte in of puluis of bole armoniac, mastic,
mummè, sumak, rede coralle, bdellii, galle3, psidie, acacie,
32 anteros⁵ ypoquistidos subtilly puluered and sarced,⁶ ana;
and medle þam to-gidre so þat þai may be zette into þe
lure by a nastare. *With* þis medicine was cured Deme-
trius, kyng of Persez, of a cristen man þat was halden
36 prisoner *with* þe same kyng; which cristen man was
made ful riche, and was sent home to cristen menne3 lande
by þe comandement of þe same kyng, and many prisoners
of cristen men war late go free *with* hym. Panis cuculi

[* leaf 161]

but after all
the burnt
hairs of a
hare are the
best for
stopping
bleeding in
piles.

Aloes and
cumin
taken in-
ternally
cause bleed-
ing from
piles, ex-
ternally they
stop it.

Remedies
for piles.
Leeks.

Powdered
cumin.

Black soap
and mullein.

Gum arabic
dissolved in
ink

cured Deme-
trius, king
of Persia, by
the hands of
a Christian.

^a "lekez" overlined.

Cuckoo
bread
wrapped in
red dock
leaves may
be tried in
piles, con-
dylomata
and dead
flesh.

[* leaf 161,
back]
A stomachic
for those
who have
piles.

A soothing
application
for inflamed
piles.

Lily roots
should be
added to it.

alleluya, i.[e.] wodsour, is a treyfole growyng vnder
busche3 and bereþ white flourez, is a ful sour herbe. Ane
handful of pis herbe without any brissyng be lapped in a
lyn clouth y-wette in water and pristed out, or in lefe3 of 4
rede dok, and be it rosted vnder hote aschen þat it be
nozþ dried; afterward be it draw out and brissed, and put
it vpon emoroide3, or fics, or condilomata, or dede flesch,
wher-so-euer it is It freteþ softly & remoueþ al þe forseid 8
ping3, aboue any ping of þe world: perfor when it may
esily be had it noyep nozt for to assay. A Rial þing¹
expert, þat wonderfully and happily amendeþ þe erroure
als wele of þe first digestion as of þe seconde, and doþ 12
away wicked colour & vnnatural, *and it restoreþ natural
colour and makeþ it gode: *Recipe* cynamoñ, 3in3ib galangi,
reubarb ana; be þai subtilly puluered, to which be done
3uccary² euently, and bresc þam to-gidre. Vse þe pacient 16
pis puluer in bygynnyng of his mete to þe wezt of 5
drams in wyne; pis medicine is profitable to þam þat
habe þe emoroides, for þai ar oftyme discolored. And it
is to witte þat if it may be done on gode maner þer oweþ 20
neuer to be putte to in þe place remediez mitigatiue3 bot
þe bodi war first mundified with farmacie, i.[e.] medicine
laxatiue, as is of þe forseid mirabolan and fleobotomye,
for elle3 þe mitigatiue3 availeþ lest. A mitigatiue of 24
akyng to emoroide3 bolned, with prikkyng and bryn-
nyng:—Make ane emplastre of comon malue lefe3 decocte
in watre and after well y-brised, with swyne grese, oile of
rose putte to, or of violete, or of lilie, or of camamille, or 28
of comon oile if þe toper be nozt had. It schal be made
þus: þe lefe3 of malues decocte and þe watre expressed, be
þai wele fried in a pan with some of þe forseid oile3; after-
ward streche þam on wolle y-tesed or subtile stupe3 of 32
line, and putte þam to hote; and wonderfully it myti-
gateþ þe akyng. If þe rote of lilie may be had and be
sopen with þe forseid malue3 it schal be more effectuous.
þis emplastre is comone yno3, ffor in wynter may lilye 36
rote3 be hadde when malue3 faileþ, and þan may þou do
with þe rote al-on as it is seid of þe malue3; if þai bope
may be had þe emplastre is more effectuous. Also þe
akyng and bolnyng of emoroides is mitigate with þe 3olk 40

¹ experi-
mentum
regale.

² quibus
additur
sacchari.

of ane hard ey rosted, and oile of rose and crocus done
to; which, y-brissed to-gidre and with wolle putte to, it
mitigateþ wonderfully in euery cause. And it schal be
4 better if þer be added to opium in litel proporcion. Also
ane emplastre of þe white of ane rawe ey and oile of
violette bette to-gidre and putte to is seid wonderfully for
to be mitigatiue. Also be eiren soþen hard, and þe white
8 of þam with oile of rose or of violetz or of þoþe with
coton be putte to hote, it ceseþ þe akyng of þe emoroidez
in one nȝt, and doþ it away. Þis is þe medycine which
I, Iohn Arderne, made, þe which I wold neuer wante, for
12 it mitigateþ wonderfully euery bolnyng of emoroides, and
akyng and prikyng with brynnynge, and it doþ it away:
which owe to be made þus:—*Recipe* Moleyn and swynez
grese¹ wele y-clensed of þe litel skynneþ and smal y-kutted;
16 and be þai wele brissed togidre in a morter or in a basyn
vnto þe grece be wele imbibed of þe iuyse; and þan lat
þis grese with þe iuse stand stille 9 daiez or more vnto þe
grese shew grene; which y-se,² eftsome soneþ be it brissed
20 with þe same iuyse, And when þe grese is perfetely imbibed
and colored of þe iuyse, putte away þat þat is superflue of
þe iuyse, and eftsomeþ brisse þe grese without any iuyse
and putte it in an erþen vessel, and kepe it to þin vse;
24 And þis medycine is called tapsiualencia. And witte þou
þat þis medycine owe fro moneþ to moneþ oneþ to be
brissed, and in þe brissing for to putte in litel bi litel of
oile of rose, or violet, or camamille, þat þe valence may
28 competently imbibe it. And if þer war added to of gode
popilion³ þe helpyng of þe medycine schal be more effectual.
þerfor when þou hast nede for to vse þerof, tak lanam
succidam, if *þou may haue it, and if þou may noȝt, tak
32 oper clene tesed wolles and putte þer-on of tapsiualencia
with þi fynger or with a spatule impressyng it, and be þer
made ane emplastre more or lesse after þe discrecion of þe
leche, and putte it on þe lure. Bot witte þou þat afore þe
36 puttyng to þat þe lure be wele fomented with a sponge
y-wette in hot watre of decoction of maluez and branne, and
be it hote putte to and abide long þeron. ffor whi; sich fo-
mentacion availeþ mich more for certayne þan hote stuphis,
40 and more hideþ þe rede bolnyngs and lesseneþ þam, as I

The recipe
for Arderne's
own oint-
ment.

¹ succum
tapsi-barb.
et axungia
porci a
pelliculis
mundata.

² quo visio
iterum cum
succo eadem
bene con-
tundatur.

³ et si de
lino Popu-
leon additur.

Arderne
calls his
ointment
"tapsi-
valencia."

It can be
kept, but
should be
stirred once
a month.

[* leaf 162]

The oint-
ment may
be spread or
applied with
the finger or
a spatula.

Fomenta-
tions to be
used before
the oint-
ment is
applied,

haue of tyme³ proued. After þe fomentacion and desiccacion of þe lure, be þe bolnyngs anoynted with oile of rose chaufed in ane ostre scheH; and putte in wele with þi fynger þe oile atuix þe runclez of þe skynne; And afterward putte 4
 to þe forseid emplastre menely chaufed, And be it bounden, þat it falle nozt away, with lynne cloute³ and a girdel atuix þe bottokkez, as it is seid in þe fistulez. And with- in one nigt þe akyng schal be cesed. þis medicyne, for- 8
 sop, passeþ all oþer to þe akyng, bolnyng, brynnynng, prik- kyng, and smertyng in þe lure, of which blode rennep nozt; And he þat haþe þis medicyne, hym nedep none better. Bot neþerles it is gode for to kune many lizter,¹ 12
 þat one defailyng he may go agayne to anoþer. And it is to wytte þat in akyng and bolnyng of þe emoroide³, þat nouþer stuphez of hote stones, and thure & coluer fyne² and sich oþer, ne syttyng aboue vesselez with herbez, as many 16
 folez dop,³ be nozt so competent as fomentacion. ffor certayn, fomentacion made with watre of decoccion of comon maluez or furfur colace,⁴ hideþ wele and mitigateþ and dissolueþ þe emoroides about þe lure. Also witte 20
 þou þat in akyng of þe emoroides þer owe to be putte noping cold in acte bot hote. ffor after ypocras cold pingz in acte bene enemys to bone³, to synowe³, to teþe, to brayne, to þe lure, to þe bladdre, and to þe nerwz of þe 24
 rigebone.⁵ And forþi þe medicyne when it is applied vpon þe wolfe,⁶ it ow a litel to be holden agaynz þe fire, þat þe actuale coldnes be done away, and þan put it to. When a lech seþ any man hauyng grete ake and many bolnyngs 28
 or fewe, more or lesse, aboute þe lure withouten, with ful mych akyng and payne, þan it is spedeful þat after þe puttyng to of ane emplastre mitigatiue, and fomentacion done tuise or prise—If þe forseid bolnyngs begynne nozt 32
 to abate—þat þe leche with a lancet or a blode iren smyte warly þe bolnyngz ful of blode, þe pacient nozt witting, and receyue he þe blode in a sponge wette in hot watre and expressed and putte to þe bolnyng. And do þe lech 36
 þis boldely, for þer is no perile þer-in. ffor why; I haue proued þis ful oft tyme³ for to be most sone helpyng. þe flebotomy y-done, be þer putte vpon of valence or some oþer equiualent medicyne, and be þer done fomentacions 40

and it should
be kept in
place with a
bandage.

The remedy
is "soveran"
for piles.

but the leech
should know
of others.

Fomenta-
tions for in-
flamed piles.

Hippocrates
quoted.

Inflamed
piles should
be lanced
freely

¹ Sed tamen
bonum est
plena scire
leniora.

² et fimo
columbino.

³ sicut multi
stolidi
faciunt.

⁴ vel furfu-
ris coluti.

⁵ vesicæ, ac
spinali
medullæ.

⁶ super
lanam.

and enoyntyngs vnto þe bolnyngz and þe akyngz vtterly
 defaile. If þe leche, forsoþ, may noȝt wirk þus, make he
 þe pacient for to be fleebotomed of þe vtter veynez of þe
 4 leggez in the euyng as it is seid afore. Also if þe leche
 se any men haue aboute þe lure without rounde bolnyngz,
 in þe ende^a of which appereþ blak spottez, witte he þan
 for certayn þat in þam is blak cluttered^b blode; which
 8 forsoþ yknowen, be þer done *fomentacions and enoynt-
 yngz. And afterward tarye noȝt þe leche for to opne with a
 launcet þe forseid bolnyngz in þe place of þe blaknes—
 þe pacient noȝt witting—ffor þe pacient schal fele no
 12 greuance þer-of; I haue proued it forsoþ oft-tymez, And
 with þis cure al-on I haue sene ful many for to haue be
 cured for euermore, and þat riȝt sone. ¶ And be þe lech
 war þat none of þam þat standeþ about perceyue when he
 16 opneþ with þe lancet or sich oþer þing sich maner bolnyngz.
 ffor if barbourz knowe þis doying þai wold vsurpe þis cure,
 appropriand it to þamself vnto vnworschip and noȝt litel
 harme of maystrez. ¶ If any man, forsoþ, haue as it war
 20 purse¹ aboute þe lure withoute, hyngyng in maner of a
 welked gri[pe], which ar wont for to bifalle of inflacion and
 ouer miche extension of emoroides had afore; þan if þe
 pacient consent þe lech may without perile kutte away
 24 with a lancet or a rasour al þo bursez, first y-bond with a
 prede, and afterward sone hele þam with vnguento arabico.
 16. **A**nd for þat þai þat haþe þe emoroides haþe oft-
 tyme a sekenez þat is called tenasmon, þerfor
 28 here we make mencion þer-of. Tenasmon is a sekenez
 within þe lure þat makeþ þe pacient for to desire purgyng
 of his womb bynep-forþ; ffor it semeþ hym euermore
 þat he miȝt haue egestion, and when he comeþ to þe
 32 priuè he may noȝt haue egestion. ¶ Cause of þis seknes
 bene som tyme emoroides hid within þe lure, or pustulez,
 or excoriacions in longaon, or for chynnyngs of longaon²
 which ar called ragadie, or for hote humour inbibed in
 36 longaon, or for þat cold humour is inuistate þer, or for
 apostemez, or for vlcerez, or for takyng of laxatiue medi-
 cyne. Signez of hote cause in thenasmon bene hotenez,
 brennyng, and prikkynge. Signez of coldnez is þat cold is

and the
 patient
 afterwards
 let blood.

[* leaf 162,
 back]

Throm-
 bosed
 piles should
 be incised.

The treat-
 ment by
 incision
 should be
 kept secret
 lest the
 barbers get
 to know of
 it, to the de-
 triment of
 the Master
 Surgeons.

¹ pendentes
 instar uvæ
 marcidæ.

Tenesmus;

definition.

² vel propter
 fissuras
 longanoni.

Causes are
 piles, ulcer-
 ation, purga-
 tives, or
 chronic con-
 stipation.

¹ "heuedeȝ" overlined.

² "coagulate" overlined.

The signs
and sym-
toms of
Tenesmus.

The
Prognosis.

The treat-
ment of
Tenesmus.

[* Leaf 163]

Clysters of
goat's milk.

feled in þat place, and it is helpid of hoteneþ. ¶ If it be
for apostemes, þer is grete akyng & greuous. ¶ And if it
be for vlcereþ, þer is gret akyng when any-þing is putte
þer-in. And if it be for emoroideþ, þer appereþ bolnyng 4
and inflacion and akyng in þe veyneþ þat ar about þe
circle of þe lure. And if it be for feceþ, it is knowen forþi
þat þe pacient long tyme afore went noȝt to sege. ¶ And
if it be for medicine laxatiue, it is knowen for þer was in 8
it Diagredium or scamonie or pulpa coloquintidis or aloe.
¶ And if it be for outward cause, it is knowen by schewyng
of þe pacient. ¶ Pronosticacion is þis: If þat þe thenas-
mon last long, it bringeþ to þe colik and iliaca passion, 12
and to vnslepyng and feblenes of vertu, and malice of
polyng, and to passions of þe heued, and to swownyng.
And cause of þise is continuel akyng. ¶ If it be for out-
ward cause, Sitte þe pacient in ane hote bath of swete 16
watre with oleo laurino and sich oper hote apertyueþ.¹
¶ And if it be for aposteme and þe bodye be plettorik, be
þer made fleobotomye of basilica; And if þe apostems be
hote, be þer made clisterieþ of iuyse of endyue, scariole, 20
coriandre, oile of rose and white of an ey. After þat þe
sekenes haþ proceded, be þer added to þise henneþ grese
fresch, and þe dusty^a meel of þe milne, and a litel hony.
And al þise be giffen leuke in acte.² *And if þe 24
aposteme be cold fro þe bigynnyng, be þer made ane
oyntment of þe iuse of apii and oile of rose, and
camamille, and branne, and iuse of cauleþ. After þat þe
sekenes haþ proceded, be þer added to fenigreke and 28
liznesede, and be þai ministred euermore hote in acte.
¶ Witte þou þat in thenasmon þer is noþing more pro-
fitable þan zettyng in by a clistery of goteþ mylke; And if
þou haue noȝt goteþ mylke, tak cow mylk, and put þer- 32
to a subtille whete meel, and boile þam togidre in maner
of children pappe; adde þer-to þe raw zolk of an ey in þe
decoccion, and a litel fresch schepeþ grece after þe lique-
faccion, and cole it, and putte in hote bi a clisterie; þis, 36
forsop, is mych mitigatyue. ¶ Also þe zolk of a raw ey
tempered with bole armoniac to sich pikknese þat it may
by a clistery be zette into þe lure, ceseþ at þe best thenas-

¹ et simili-
bus calidis
aperitiuis.

² et omnia
ista dentur
actu tepida.

^a "flying" overlined.

mon ; and pis haue I proued oft tyme3. ¶ If tenasmon be for ragadias i.[e.] chynnyng3^a within þe lure, cure þe ragadias and thenasmon schal be cured. ¶ A remedie

4 agayn3 thenasmon of what euery cause it be, after Bernard of Gordon, *capito de thenasmon* ; *Recipe* fenigrec, *semen* lini, malue bismalue, camamille, mellilote, i.[e.] þe croppez of caule3, ana ; be þai brissed and boiled in watre
8 vnto mene pikkeney3, and be it coled, and be it warme cast in by a litel clistery. ffor, for certane, outward fomentacions and suffumigacions profiteþ no3t so mych as medicyne3 putte in by a clistery, and þat haue I oftyme proued.

Bernard de Gordon's clyster for Tenesmus.

12 ¶ Agayn3 greuous ychyng and vnsuffrable in þe lure take þe iuyse of celydome,¹ of moleyne, ana, hony scomyd als mych as of þe iuysez, and boile þam togidre to þe wastyng of þe iuysez ; after sette it downe fro þe fyre and kepe to
16 vse. When þou wilt vse þer-of agayn3 ychyng, tak þer-of als mych as þou wilt and putte þer-to of puluis of vitriol combuste and alum combuste and orpment, and if nede be boile it agayne vnto it be ane vntement haldyng fast yno3,
20 and putte a litel þer-of into þe lure agayn3 þe ychyng, and sone it schal cese, and in euery party of þe body for certay[n]. And pis oyntment is called tapsimel, of tapsi-barbasti^b & melle^c ; fforsoþe pis is a noble oyntment.

Treatment of Pruritus ani,

by tapsimel.

24 ¶ Ragadias may we no3t cure bot if we bryng in medicyne3 within þe lure, ouper with clistery or with suppository ; ffor medicyne3 putte without-forþe profiteþ ouper litel or no3t. Wherfor first it byhoueþ for to wirch with corro-

Treatment of rhagades, which is chronic ulceration of the rectum.

28 siue3 to þe mundifyng, and afterward with consolidatyue3 and desiccatiue3, as it is seid afore of þe emoroides hid within þe lure. ¶ Agayn3 ragadias, after maister Richard in micrologio suo, *Recipe* oile made of eiren, or oile of rose,

A ferrie ointment recommended by Master Richard the Englishman.

32 & white of ane ey raw, and iuyse of lyuane,² & cimbararie^d ana ; medle þam togidre & put þam in. ¶ Agayn3 ragadias within þe lure be made sich ane oyntment after Gilbertus ; *Recipe* oile of rose and of violettes ana ʒij
36 gote3 or schepe3 talow ʒiiss. be þai al molten togidre at þe fire, and sette þam doune, and moue it continually with

An ointment invented by Gilbert the Englishman.

¹ chelidon.

² et succo lucasie

^a "clenyng" overlined.
^b "moleyn" overlined. ^c "hony" overlined.
^d "pennyworthe" overlined.

a spatule; and when it is almost cold putte in puluer of R. triasantalorum ʒss. and medle hem togidre; it heleþ wonderfully. ¶ Also oile of linsede putte in availed agayn; þe forseid sekenez; it is forsoþ riȝt desicatyue. 4

[leaf 163,
back]
Prolapse of
the rectum,
treated by
bleeding
and a
fomentation
of gallic or
tannic acid.

17. **A** gayn; goyng out of þe lure: If vertu and age suffre be þer fyrst y-done flebotomy of þe vtter sophene of þe legge; Afterward be þer done suffumigacion or fomentacion of gaß, or of þe rynde of a grene oke or dry; 8 of þe rynde of pome-granate þat is called psidia, and of þe flourez of granate þat ar called balaustia; of þe rote of camfery decocte in rayne watre. And if it be in somer pise may be added to, or ellez by þam selfe: verueyne, moleyne, 12 plantane, gawel,¹ psillium, iuyse of coriandre, berberiz, porcelane, bursa pastoris, rede rose, tanesey, wormode, horsmynt, and sich oþer stiþtikez. ¶ Of pise of which þou may haue best make ane hote fomentyng with rayne 16 or rynnynge watre, vinegre added þerto; And after þe fomentyng be sprenkled aboue puluis of hole, of sanguis draconis, of hertez horne combuste, bark-duste, psidie, balaustie, mumme and sich like. ¶ Afterward, if it may 20 be done on any maner, be þe longaon putte into his place, and be it fast bondyn with warlynez² þat it go noȝt out. Also agayn; goyng out of þe lure be it fomented with watre of decoction of caulez, and after anynt it with aloe 24 and vnguentum vetus broken togidre. ¶ Also agayn; þe goyng out of þe lure, chaufe or make hote apostolicon; which chaufed, be longaon touched with it, and alsone it schal entre agayn. ¶ If it be nede do it oftyme; when it goþ out; 28 Afterward be it bathed in watre of plantane, of porrez, of peritory, or of peritorye³ alon. With þis medicyne was kyng henry of ynglond cured of þe goyng out of þe lure.

Put back
the pro-
lapsed bowel
and keep it
in place with
a dressing.

¹ myrrha

² ligetur
cum cautela.

The remedy
which cured
K. Henry of
this com-
plaint.

³ sed solius
parieturæ

[leaf 164]

18. **B**e a leche wele puruied þat he haue a couenable 32

Arderne's
improve-
ment on the
ordinary
clyster pipe;

instrument for clistryez to be ministred; þat is þat he haue a pipe of tree, namely of box, or of hesel þat availeþ mych, or of salowe, to þe length of 6 ynchez or 7 with on hole 36 alon; ffor old men vsed pipes holed in þe side. Bot witte þou for certayne þat, as I haue lered be experience, a pipe with one hole availeþ more, and zetteþ better in þe

liquore. ¶ Afterward haue he a swyne3 bladder, or a netez bladder, no3t blowne to myche, which þou schalt preparate þus for to be kept. Take þe forseid swyne3 or
 4 netez bladder when it is dry, and putte þerin a sponeful of comon salt, of water als mych, of hony als mych as of watre; latte þam be dissolued togidre in þe bladder by tuo daies naturale, And euery day tuyes or pries be þe
 8 bladder turned or shaken about, þat it may be wette of þe liquore on euery side. Afterward be þat putte out þat is per-in, and be þe bladder blowne, and be þe mouth bonden þat þe wynde go no3t out, and hyng it in
 12 ane vmbrose¹ place vnto þat þe be had nede þe-of. þis preparacion, forsoþ, kepeþ þe bladder fro corrupcion long tyme, And fro fretyng of wormez, and makeþ þe bladder strong and able to þe vse of the forseid werk.
 16 ¶ Be þe clystrye made þe after my maner, for it is list bot no3t lesse effectuale. Many þings bene profitable to þe confection of clisteries, if þe lech mi3t haue al redy. Bot oft-tyme þe leche may no3t fynde in euery place al þing3
 20 necessary to hym; þe for it schal no3t vnworschip² a lech for to spede profitably with fewer þings and lister. Old leche3, forsoþ, ordeyned costiuous³ clystrye3, greuou and list, and þai putte in cassiam fistulam, mirobalan, rerepigre
 24 and oþer laxatiue3; which clisterie3, forsoþ, after þair receyuyng, made þe paciente3 more constipate, i.[e.] encostyued, þan þai war before; And þe for long tyme3 and oft tyme3 I haue proued and bene experte a lister maner
 28 of clystryng and more effectuous, as wele in childre and wymmen as in men, als wele in 3ong men as in olde men; And in diuerse case3 as in wounded men, constipate⁴ men, and febrous men, and in colica & yliaca. And I spedde
 32 effectuously with sich a clistre þat is þe made. ¶ *Recipe* maluez comon and grene camamille, or drye if þou may haue it, and brisse þam a litel, and sethe þam in watre vnto þe watre become grene; þan tak whete branne als
 36 myche as sufficeþ, and putte it to þe forseid herbis and boile it a litel; afterward cole it, and to þe colyng adde to ane handful of salt and clene hony or oile; and be al wele

his apparatus for giving enemata.

His method of preparing the bladder.

The simpler the enema the better.

Prescription for a very simple enema.

¹ "schadowye" overlined.

³ "i. of gret cost" overlined.

² "ne schame" overlined.

⁴ "costyue" overlined.

Salt and water are really enough for an enema.

[leaf 164, back]

Honey useful in clysters.

Herbs to be used in clysters,

and salt in moderation.

Clysters require skill.

Arderne's methods better than those of the Lombards in London.

resolved, mouyng it with a spatule or with þi hande; þis confection, forsoþ, may be kept by a fourtynȝt if it be nede. ¶ If maluez, forsoþ, or camamille may noȝt be hadde, with water & branne and salt without any oper 4 þing þe forseid nede schaff be sped wele ynoȝ for certayn. ffor whi; for certayne if a lech wanted aȝ oper þingȝ, with water alon & salt boiled togidre and ȝette in by a clistrye bringeþ out squiballeȝ.

8

Bot witte þou þat þise bene necessary to þe confection of clistrieȝ, þat is to sey, Hony, oile, butter, salt, swyneȝ grese, sope white and blak, oile of camamiȝ, oile of rwe, & oile of maluez, sanguis veneris, &c. Of which forseid 12 white sope may euer more be necessary to a leche, for it y-putte in þe forseid decoccion and þer schaken wele with þe hande mych strengtheþ þe clistrye; and þis may euer more be had redy. Also hony when it may be hadde 16 doþe grete help in euery clistery. ¶ Þise bene herbeȝ necessary to þe werk of clistry, *scilicet* Violette, maluez, camamiȝ, *mercurialis*, watercresse, caule lefeȝ, peritorie, &c. Of which som wircheþ mollifying, as maluez; some 20 dissoluyng, as camamiȝ, peritorie, and oper. Bot wytte þou þat in clistrying þe leche owe for to augmente and lessen þe proporcion of salt after þat þe vertu of þe pacient may thole, i.[e.] suffre, for þe tendernes of longaon, and 24 after þat he sepe þe pacient strong, softe or hard for to avoiden. ffor grete quantite of salt makeþ sone þe clistery for to haste to þe goyng out, And mene quantite bryngeþ noȝt out so sone. þerfor be þe lech waker in þis þat he 28 be noȝt negligent ne fole-hardy in his wirchyng. ffor it is werk of a perfite maistrye. ffor þe which I haue geten ane hundreþ tymeȝ grete honour with lucre in diuerse placeȝ. ffor whi; at london when lumbardeȝ of-tymeȝ ministred 32 clisterieȝ on þair maner to colic men and oper men constipate,^a ne myȝt noȝt auaile, ¹I, forsoþ, with þe forseid maner of clistrying, at þe first tyme within þe space of a forlong or of tuo, I deliuered þe pacient for certayne, our 36 lord beyng mene. ¶ When þou wilt forsoþ giffe a clistre, Tak of þe forseid decoccion half a quart at þe moste and putte it in þe bladder, and putte þe gretter ende of þe

^a "encostied" overlined.

¹ Ego cum predicto modoclisteringandi primo vice infra spatium unius stadii vel duorum patientem, deo mediente, deliveravi pro certo. [Sloane 56, leaf 24.]

- pipe into þe bladder, and bynde it faste; and anoynte þe forþer end of þe pipe *with* fresch swyneȝ grese, or *with* butter, or *with* popilion, or *with* comon oile, or *with* hony.
- 4 And putte in þi fynger, anoynted first *with* some of þe forseid pings, into þe lure; And alsone putte in þe pipe of þe clistre into þe lure. And þan ow þe leche for to presse þe bladder *with* þe liquore atuiȝ his hondeȝ and ȝette in
- 8 þe liquore. And if he fynde as it war ane obstacle in ȝe wombe lettynȝ þe entryng of þe liquore, as it oftymeȝ falleȝ, þan draw agayne a litel þe pipe, and he schal fele þe liquore entre, and þan ȝette in al þe liquore; which
- 12 y-ȝette in, make he þe pacient for to lye grouelyng aboue his bedde, and frote & robbe his wombe vpon þe nauyl *with* his owne hand or *with* anoþer manneȝ; * And enforce he hymself als long as he may for to withhold þe clisterye,
- 16 And when he may no longer hold it, go he to a sege made redy *with* a basyne standyng vnder-nepe and þer do his nedeȝ. And se þe lech þe egestions, wheþer it be blode or putride flemme &c, or wormes or squiballeȝ indurate,
- 20 or wheþer colre go out or quiter &c. And þus may þe leche be certified what is to do in euery cure. ¶ Ouer þat þis is namely to be written, þat when þe lech ministreþ clistery to any man, þat in ȝettyng in þe liquore *with* þe
- 24 clistery þe liquor alsone stirt out vpon þe handeȝ of þe leche, so þat þe pacient may noȝt withhold it ne receyue it; and þat dure 2 daies or 3, for certayne sich a pacient is disposed to þe dep *without* dout, þat is if þe liquor
- 28 ȝetted in be noȝt ouer scharp of þe salt. þerfor be þe leche circumspecte,¹ for ful seldom haue I sene þis reule faile for certayn, bot neperlesse it holdeþ noȝt euer, þat is if þe sekeneȝ go agayne to wele-fare.² ¶ Also it is to
- 32 witte þat when þe leche haþe wele clensed, bi þe clistery, þe wombe of feceȝ and oþer superfluiteȝ seid afore, þan profiteþ it mych for to ȝette in a clistery made of decoccione of malueȝ, if it may be hadde, and of branne and of butter
- 36 & oile or swyneȝ grece. If malueȝ, forsop, may noȝt be had, þan be it made only of decoccion of branne and of þe toþer seid aboue, and be it ȝetted in by þe clistery.

Directions
for giving a
clyster.

[* leaf 165]
The use of
clysters in
diagnosis.

The use of
clysters in
prognosis.

A soothing
clyster.

¹ "biholdyng aboute hym" *overlined*.

² "or myȝtyneȝ" *overlined*.

The use of
clysters in
colic.

How
clysters act.

[* leaf 165,
back]

Nutrient
enemata re-
commended.

Clysters
may be given
seasonally
and to pre-
vent illness.

Be þis clistry forsoþe made without any salt, And þan
owe þe pacient for to withhold it strongly by al a nizt and
longer. And þis schaff conforte þe bowellez and schal molli-
fien þam, and schal kepe þam fro constreynyng vnto þai 4
be filled with new fece3. Elle3, forsoþ, of þe voidenez of
þe bowellez þe bowellez schuld be constipate, as I haue oft
tyme sene. ¶ It is to witte þat in curacione of þe colic
no medycyne so sone helpeþ as clistry; ffor why; þis 8
bryngeþ out hard squiballez of what euery cause þai be
withholden, And it avoideþ souerany ventosenez, and
wonderfully putteþ out viscose flemme & putrified. Wher-
for I haue oft-tyme3 cured many paciente3 with clistry 12
without any oper medycyne, And oft-tyme3 within 3 houre3.
And þerfor it spedþ for to wrik first with a clistre in
colic & yliaca passions; ffor þe lower bowellez avoided of
þair superfluitez, þe ouer bowellez may more lightly putte 16
out fro þam þair superfluitez to þe lawer bowellez. ¶ As
auicen seiþ, al þe bowellez of a mannes wombe ar con-
tinued with venis miseraicis, out-take longaon, for longaon
is nozt continued to þam. Wherfor þe lyuer may drawe 20
to hym fro ouer bowett somewhat, And by þis is it
schewed þat if ane hole man bi any case be distitute
of appetite of * mete and drynk, þat he may no maner
ete, þat by þe infusion into þe lure by a clistrye of any 24
norischyng liquore, as of any potage or mylke of almandez
or sich oper, þe lyuer mygth draw þerof to hymself and
so norisch þe body. ¶ þerfor witte þou þat clisteriez nozt
only availeþ to seke men and constipate, as of þe colic or 28
of sich oper, bot it availeþ to al men beyng in þe febre3,
als wele acuez as crenic, i.[e.] long tyme lastyng, And to
euery inflacion of þe wombe, and to ventosite of it, and
torcions, i.[e.] gryndyng. And som-tyme it availeþ mych 32
in som fluxez of þe wombe: And for certayn it availeþ
mich to hole men, constipate and nozt constipate, if þai
be purged twyse at lest or 3 or four tyme3 in a 3ere with þe
forseid clisteriez; þat is tuyse in wynter, and in vere as it 36
war after lentyn one3, in somer one3, or ofter tyme if nede
be. ¶ ffor why; þe benefite of it may no man noubre;
ffor as it helpeþ fair in necessite, so it preserueþ þam þat vseþ
it fro harme & necessite: be it þerfor had in reuerence. 40

19. [O]f atramentez, i.[e.] of vitriolez, bene many kynde; And pat is better pat is more grene and pat is founden in pe yle of Crete^a; and it is called comonly dragante, bot noȝt dragagante,¹ ffor dragagant is a white gumme and clere like vnto gumme arabic. Also per is a spice of vitriol pat is called vitriolum romanum, i.[e.] coporose; And it is of ȝalow colour in reward of² pe grenner vitriol.
- 8 And per is one of white colour bot noȝt schynyng, and pat is seid to availe to pe cure of eizen. Vitriol is hote^b and drye^c in pe 4 degre after platear,³ And per ar 4 maners perof: Indicum, pat is founden in ynde, and pat is white; Arabicum pat is founden in arabye, and pat is ȝelow; And ciprinum pat is founden in Cipre, and pat is grene; And romanum pat is coprose, pat is more grene is competent to medicyne. It hape strenght of dissoluyng,
- 16 consumyng, fretyng.^d It may be kepte by 10 ȝere effectually. Also vitriol combuste be itself or with salt combuste vputte vpon a venemyd wonde drawep pe venym fro bynep vnto aboue.⁴ Also puluer of vitriol combuste streyneþ blode in euery place if it be putte by itself or with iuyse of any herbe streynyng blode, as of rede netle, or bursa pastoris, or moleyne, or walwort. Also it is seid to availe agayns polipe in pe nose if it be putte into pe nose with a tente of coton and melle rosette medled with ȝolk of an ey; it freteþ superflue flesch, and putte into a fistule mortifieþ it. And also it y-medled with diaquilon or apostolicon and y-put vpon fraudulent vlcere;⁵
- 28 in dry membrez, it cureþ pam meruelously in drawyng, and mortifieþ pam and freteþ pam. Also if vitriol be combust it is lesse mordicatyue, but his drynez is not lessened. florsop al spicez of vitriol bene scharp after lesse and more, and pai haue þair scharpnez in þair superficite; And when pai ar combuste pai bene exsiccatyue without grete mordicacion, and so in exsiccand þai gendre flesch, and most in drye membris and bodiez. ffor why;
- 36 Vitriol y-put to diuerse membris or diuerse membris⁶ it is sene to haue diuerse effecte In dry bodiez, for as coloric

{leaf 166}
Of Atramentum or vitriol.

The varieties.

The different kinds.

Uses.

A styptic

for nasal polypi

and for proud flesh.

Burnt vitriol less caustic.

Vitriol in the strong and healthy dries wounds and stimulates them to heal;

^a "or cipre" overlined.

^b "calidus" overlined.

^c "siccus" overlined.

^d "corrodyng" overlined.

¹ una species,

² in respectu viridioris.

³ Secundum Platearium

⁴ ab inferius ad superius

⁵ ulcera fraudu-
[lenta].

⁶ Nam vitriolum diversis corporibus appositum vel membris.

and malencolious ; And also putte in dry membrez when it fyndep strong membrez agaynstayndyng to his strenght, þan may he noȝt bot dry superfluiteȝ y-founden in vlcereȝ or in wondeȝ ; which forsoþ y-dried, nature gendereþ flesch. 4

in the weak
and feeble
it increases
the dis-
charge.

In moist bodiez, forsoþe, as in fleumatike men and childre and wymmen, and in moiste membrez of þe bodie, þe membrez bene feble and may noȝt withstande to þe strength of þe vitriol ; and so þai suffre liquefaccion of it, and so 8 putrefaccion is augmented in þe wonde. And as it wirkeþ þus in diuerse bodiez, so wirkeþ it in diuerse complexions and diuerse membris. And it doþe noȝt þus for contrariouste of operacion þat it hape in itself, bot for 12

Why vitriol
acts in such
contrary
ways.

contrariouste of complexions to which it is y-putte ; As fire dop diuersely in dyuerse þings. ffor whi ; lede or oper metalle as bras and siluer y-put to þe fire ar molten of þe fire ; tyle, stoneȝ, and erþen potteȝ y-putte to þe fire 16 ar hardened ; and þise be noȝt done for þat þe fire hape contrarious wirkyng in hymself, bot for contrariouste of nature of þe forsaȝid þingȝ. *Wherfor seiþ galiene, if þer

[* leaf 166,
back]

be tuo þings euen in helpe, and þe tone be in a dry 20 membre and þe toper in a moiste, þat þat is in þe dry membre nedep more dry medycyne. Emplastrez, forsoþ, þat ar putte to membrez owen to be of o kynd to þe membrys, after Iohn Damascene : Tak of vitriol als 24

John
Damascene's
vitriol
plaster.

mych as þou wilt, i.[e.] 2 vnceȝ or 3 or 4, and putte in ane erþen potte whos mouþe be wele stopped with clay distemperate with horse dong, þat is called lutum sapien,¹ and sette it to dry ; þe which y-dried, sette^a þe potte with 28

¹ enjus
orificium
fortiter
obturetur
cum luto
bene dis-
temperat.
cuni fumo
equino quo¹
vero lutum
sapiencie
dicitur.

þe vitriol among coleȝ, and make a softe fire by one houre ; And after ane houre make it stronger, and blow strongly with beloweȝ 2 houreȝ, and after lette in pece vnto þat þe fire defaile by itself. And þe potte y-colded, be it opned, 32 and þou schalt fynde attrament, i.[e.] vitriol, of rede colour cleuyng to þe sideȝ of þe potte ; whiche remoued fro þe potte, be it poudred subtilly vpon a stone, and putte

The uses of
this oint-
ment ;

it in a strong leþer bagge and kepe it to þine vse. By sich 36 combustion is his natural hete alterate and so it is colded, and so his mordicacion is dulled ; wherfor it may restreyne blode in noseȝ and woundeȝ and lure and marice. Also it

^a "birye" overlined.

1 contra
apostemata
venenosa et
fraudentia

availeþ agayneþ þe cancre and agaynþ venemous apostemeþ
and fraudulentþ¹; And to teþe or gomeþ frenen or gnawen
medled with symple hony, or better with melle rosate; Or
4 best if þat licium, i.[e.] iuyse of caprifoile with clarefied
hony be soþen to þe pikneþ of hony, and be medled with
puluer of vitriol and putte vnto þe gomeþ; ffor whi;
Iuyse of caprifoile þat is called licium availeþ bi itself to
8 al þe viceþ of þe mouþe. Also vitriol y-medled with hony
and licium putte þer-in helpeþ to vlcereþ of ereþ, and to
þe quitour of þam and fretyng. Also vitriol combuste
when it is medled with puluer of hermodactileþ and putte

how it may
be modified
with licium,
etc.

12 vnder-neþ þe tung it helpeþ to þe ranule.^a Ane oyntment
þat availeþ to cancrose vlcereþ, and to wondeþ, and to
apostemeþ, of which floweþ out blode, and to yuel car-
buncleþ þat ar called pestilencialeþ, and to apostemeþ þat
16 ar made of yuel mater, is made þus: Recipe of old swyne
grese² ȝiii, vitriol ȝiiii. Be þe grese molten ouer þe fire &
be it coled, and breke long tyme þe vitriol with oile in a
brazen mortar, and afterward medled with þe grese ouer þe
20 fire, and make ane oyntment mych fruyteful. If þou
wilt make it in maner of one emplastre, putte þer-to wax
and blak pich, for pich haþe strenght or vertu of drawyng
fro partieþ bineþ to aboue, and þe same doþe vitriol.

An oint-
ment against
plague
blotches.

2 adipis
porci vetus-
tissimi.

24 20. **A**lum ꝛucaryne is called comonly alumglasse. It
is hote^b and dry^c in þe 4 degre. It is a
veyne of þe erþe y-knowen yno³,³ bot how mych it is more
clere & schynyng so mych is it better. It haþe strenght of
28 consumyng and of gretly desickyng.^d It availeþ with hote
vinegre agaynþ inflacions of þe gomeþ; And it availeþ in
medicynes agaynþ þe scabbe. Also poudre of it combuste
profiteþ mich bi itself, or y-medled with hony, *in mundi-

Alum glass,

3 satis
cognita et
commune,

its uses.

4 cum
quadam
stipicitate
5 in hoc
quod.

32 fying of lizt cureþ. It mundifieth, forsoþ, with a stiþtikneþ,⁴
and in þat þat⁵ it is stiþtik it is confortatyue of membreþ,
for al stiþtik pingþ bene repressiue of humours. þer is,
forsoþe, anoþer kynde of alum þat is called alumen scissum,
36 comonly alum plume, and it haþe þredeþ and it may be
diuided and ryuen in sondre. And it is riȝt gode, and it
haþe þe same vertueþ as alum glasse. Alum glasse is

[* leaf 167]

Alum
plume.

^a "frog" overlined.

^b "calidus" overlined.

^c "siccus" overlined.

^d "drying" overlined.

The method
of preparing
alum glass.

brynt þus: Tak a tile stone or a scarpe of a potte,¹ and putte it in þe middeȝ of brynnynȝ coleȝ so þat þe coleȝ touch it noȝt, and in þat scarpe putte þe hole pece of alum, and alsone it will melt as it war yse, and boile, and after- 4 ward it wexeþ hard; and in boilyng it will blow and wex hiȝe in drying and wexing white. And lat it be stille so in þe fire vnto þe blowyng and boilyng vtterly cese, and to it be broȝt into ful white colour; þe which y-sene, sette 8 it fro þe fire and poudre it ful smal vpon a stone, and in a leþer bag kepe it to þine vse. Water of alum is made þus:

Alum lotion.

Tak a quantite of it als mich as þou wilt, and breke it at þe best,² to which be added to 8 partieȝ of gode vinegre 12 and strong, and so boile þam in a panne at þe fire vnto þat þe half parte of al-togidre be consumed. Afterward remoue it fro þe fire and cole it; And þis is called watre of alum, which availeþ agaynȝ ychyng of scabbe of salt 16 flemne. And þis watre mundifieþ in coldand, bot watre of sulphur mundifieþ in hetyng or chaufand.³

Verdigris
and its
properties.

21. Viride es i. [e.] vertgreȝ, is hote^a and drye.^b It is ful penetratyue and dissolutyue, and it prikkeþ and brynneþ 20 and melteþ, and repressiþ putrefaccion. Wharfor, after galiene, [cap.] 4 de ingenio, of wex and oile and vertgrese may be made anoyntement temperate. ffor whi; vertgrese is ful mich penetratife, dissolutiue, pungityue, vrityue,⁴ 24 and liquefactyue. And al þise ar repressed and dulled of wex and oile adde to it; for siþe wax and oile moisten riȝt mich and gendreþ putrefaccion, þai dulle þe scharpneȝ of vertgrese, And vertgrese represseþ þeir putrefaccion and 28 humeccacion; wherfor of þise bene made a temperate oyntement.

Arsenic and
Auripig-
mentum.

22. [A]rsenic & auripigment bene boþe one, bot 32 lesse boþe haue a ȝalow colour, but auripigment is gretter and more schynyng, and more disesy for to grynde for his predineȝ; for in substance he is like vnto plaistre of paris. Bot arsenic is as it war puluer in reward of auripigment, 36 and it is more litzly broken; And when it is broken it haþe as it war vermilion within it, of rede colour and of ȝour colour; which vnkunnyng men seiþ to be realgre, &

¹ Accipe
unam te-
gulam vel
testam
unius olle.

² et teratur
optime.

³ valet
contra pruri-
tum scabei
ex salso
flemate et
ista aqua
mundificat
infrigi-
dando, sed
aqua
sulphuris
mundificat
calefaci-
endo
⁴ uritinum.

^a "calidus" overlined.

^b "siccus" overlined.

¹ secundum
modum alki-
mistarum id
est alkenem-
yers.

Realgar is
not identical
with
Arsenic,

but there is
nothing in a
name.

[* leaf 167,
back]

Use arsenic
and realgar
with the
greatest
caution ;

they are
more caustic
than fire.

Ardene's
first experi-
ence with
arsenic when
he was
young ;

he thought
he had
killed two
patients ;

² Quoniam
virtus eorum
circa ignem
in ultimo
fortitudi-
nis et quod
patet

³ orpiment

pat is false. ffor whi ; realgre is ane artificial confection
made of alkenemistrez¹ bi sublimacion, as arsenic sublimed,
And for certayn pai ar nozt different in operacion in any
4 ping, out-take pat realgre is of rede colour, and arsenic
sublimed is of white colour ; bot neþerleþ arsenic entrep in
confection of realgre, And forþi realgre is called of som
men rede auripigment : of þe nameþ is no stryuyng so þat
8 we vnderstond þe pingz. * Auripigment is hote and dry
in þe 4 degre, of whiche bene tuo spiceþ as is seid aboue,
þelow and rede. þelow is more competent to vse of lecheþ.
It is forsoþ dissolutyue, attractyue, and mundificatyue,
12 And it hape in it a vertue putrefactyue by which
he putrefieþ straunge humours comyng to a wounde,
or ane vlcere, þat þai may nozt be assimilate, i.[e.]
liken to membreþ, and engendre superflue flesch or dede
16 flesch. Also it availeþ in medicyneþ agaynz þe scabbe, þe
tetre and white morfee y-medled with blak sope. And
for þat we made mencion of arsenic sublimed, þerfor it is
to witte þat no leche bot if he be more experte in cirurgie
20 presume for to wirk with realgre or arsenic sublimed. ffor
of þam ar bredde many diseseþ for þair distemperate
violence. ffor why ; þai hoþe wirk with one maner and
violence, and þat more violently þan cautery of fire. And
24 if any man ow for to vse þam, þam owe to be putte to in
þe lest quantite, for þe vertu of þam aboute fire is þe
vttermoste of strenght,² and þat is schewed, for þe watre of
þam freteþ euery metaH, out-tak gold. Witte þou þat
28 auripigment is called comonly ortment,³ whos puluer vseþ
falconereþ agaynz pedicleþ^a of þaire falconeþ. Also witte
þou þat auripigment is desiccatyue, consumptiue, euapora-
tyue, eradicatyue, putrefactiue, ruptyue and cauteriatyue.
32 Also witte þou þat of arsenic sublimed or of realgre, þat
oneþ in a tyme in þe bigynnyng of my practizing, when I
knew nozt þe violence of þam, I putte of þe puluer of þe
tuo forsayd in þe leggez of tuo men ; þe which, forsoþe,
36 y-putte in, almost þei wer wode for ake bi tuo daieþ naturel
and more ; And þair leggez war bolned out of mesure. þe
þrid daie, forsoþe, þe place wher þe puluer was putte
appered of riþt blak colour, and þe pacientþ war so feble

^a "lise" overlined.

his treat-
ment of
them.

The tibia
died,

[* leaf 168]

and a
sequestrum
formed,

which
Arderne did
not notice
for some
time.

pat pai war almost dede. þan I anoynted þair leggez *with* oile of rose or popilion, And I fomented þe leggis in hote water for to euapour yuel humours contened in þe membrez; And aboue þe place I putte rawe larde kytted 4 pinne,¹ *with* oile of rose. Aboue þe larde putte I ane emplastre of þe 3olkez of raw eggez, And stuppez of lyne aboue for to hold þe larde. And aboute þe 9 daie þe place combuste beganne to dissolue in þe circumference and for 8 to putte out quiter. And þe place nozt reparate bot fro þe þrid day to þe þrid daye² I continued euer-more þis cure in þe forseid maner, vnto þat al þe mortified flesch within was fully putte out þe which, forsoþ, putte out, þe bone of 12 þe legge^a appered bare *with* a wounde riȝt horrible; þe which y-sene, I filled þe wonde of stupez y-kitte smalle, and putte þam aboue þe naked bone; and I putte in of þe 3olk of a raw egg wele temperate *with* sanguine veneris, 16 and I filled al þe wounde *per*-with; and so euery day oneȝ reparalyng it vnto þe quiter biganne to cese, and þe sideȝ of þe wounde byganne for to sonde or conglutinate. And witte þou þat when þe sideȝ of þe wounde come to þe 20 place of þe bone cauterizide of þe arsenic, which was blakke, *þai miȝt no more grewe, for þe mortified bone miȝt nozt receyue nutriment, þat *per* miȝt no flesch grew vpon it, ne be regendred. þe which ȝitte sene, I, sewyng 24 þe ignorance of þe comon puple,³ euery day I schoue⁴ þe bare bone *with* instrument preparate *per*-to, entendyng for to gendre flesch vpon þe bare bone. And I putte to regeneratyuez of flesch, þat is to sey licium *with* mel 28 rosate, and puluer of aloes, & mastike, and mirre, sarcocott, san. draconis, and pai profited noping. Neþerleȝ þe schauyng euery day continued in þe maner of ydioteȝ, as I seid afore; a daye, as I schoue þe forseid bone, þe 32 bare bone vnder þe instrument moued vp and downe; þat, forsoþ, *perceyued*, I meruailed ouer mesure, neþerleȝ I *perceyued* of þat þat þe schauyng of þe bone profited noping: fro þan forþe I lefte þat werk, and I putte noping 36 elleȝ in þe wounde bot licium *with* melle rosate and 3olk of a raw aye ymedled togidre, *with* carped stupez of lyne, and so fro day to day continuyng vnto þe forseid bone,

1 apposui
lardum
crudum
tenue
incisum,

2 de 3^o in 3^m.

3 Quo adhuc
viso, ignor-
antiam vulgi
prosecutus.

4 Abrasi.

^a "schine" overlined.

flesch growyng vnder-neþe appered hijer þan þe extremiteȝ
of þe wounde, and was made more moueable and more ;
þe which ysene, I putte þe poynt of a knyfe vnder þe side
4 of þe bone and I raised it a litel, and al þe bare bone stirt
out, and rede flesch had filled al þe space where þe bone
laye, and blode went out. þat bone, forsoþe, had in length
4 yncheȝ, and 2 in brede ; in þikneȝ, forsoþe, it was drawne
8 out almost vnto þe merewgh of þe bone ; And pis was in
þe schyne bone. After þe seperacion, forsoþe, of þe bone,
I cured finaly þe wounde with *licium* and mel rosate and
raw zolk of an ey and puluer sine pari. And þe pacient
12 recouered wonderfully his goyng ; he was, forsoþe, a ȝong
man. And as it felt on þe tone man, one þe same maner
felle it of þe toper. And witte þou þat I putte noȝt of
puluer of arsenic in þe leggeȝ of þe forseid men ouer þe
16 quantite of a corne of senvey,¹ and neþerlesse þe wondeȝ
þat come of þe arsenic passed fully þe lengthe and þe brede
of a manneȝ hande. þerfor vnexpte men be wele war
fro þe vse of realgre and arsenic sublimed, and namely in
20 þe face and þe leggeȝ, and synowy placeȝ and bony, and in
a manneȝ zerde, and in þe lure ; for bot if þai haue grete
resistence þai wirke ful cruely.

He removed
the dead
bone and the
wound
quickly
healed.

The second
case was
similar,

therefore use
arsenic with
the greatest
care.

23. [*L*]icium is þe iuyse of caprifoile, þat is called wode-
24 bynde, and it groweþ in wodeȝ and wyndeþ strongly
aboute treeȝ ; and it haþ long floureȝ, and it bereþ swete
rede berieȝ. *Licium* cureþ þe canker in þe marice and in
oper in ward membreȝ, for it haþe vertu mundificatyue,
28 consolidatyue, and confortatyue, and regeneratyue of flesch
in a bare bone and in schynne boneȝ ; and it haþe a vertu
mundificatyue of putrefiyng of þe bone. And generally it
availeþ in al fretyng sekeneȝ, as in cancre, lupe, fistule,
32 and noli-me-tangere. And agayne þe cancre in þe moupe
licium is a principal medicyne, boiled with hony vnto þe
þikneȝ of þe hony. And it may be þus made : þe iuyse
schal be pressed out and sette to þe son for to dry vnto
36 þat it may be puluerized. And pis puluerized availeþ to
derke eizen, putte in þe eiz, and forþi is called *oculus lucidus*.

Licium or
juice of
woodbine.

Its uses.

Various
prepara-
tions :

powder is
good for the
eyes,

[* leaf 168,
back]

* Bot it may be made profitably oper wyse, availyng to ful
cause of cirurgie, & þat þus : þe iuyse of caprifoile pressed

¹ "a mosterd sede" overlined.

the juice
with honey
for the
mouth,
and for
ulcers
everywhere.

It is ex-
tracted with
wine instead
of water,

and is then
used for foul
ulcers.

Arderne
used it
successfully
on a great
man.

Pulvis sine
pari,
its con-
stituents

and prepara-
tion.

The reason
for its name;

its uses,

out bi itself, be it boiled with also mich of clarified hony
vnto þe wastyng of þe iuyse, and be it kepte vnto vse.
And þis availleþ to þe cancre in þe mouþe, and in þe lure,
and in þe marice, and al cancrose vlcere; and fraudulent; 4
of leggez. If þe iuyse, forsoþ, may nozt litzly be pressed
out for þe þiknez, als it falleþ, oft tyme, þan be þe lefe;
watred with gode white wyne or rede, and þan may þe
iuyse litzly be pressed out. ffor whi; witte þou þat capri- 8
foile owe nozt to be waschen with watre afore þe brissyng,
and moste when þer owe to be made licium to cure; of þe
eizen, Bot if it nede alwaiez to be wette, be it no maner
done with watre bot with wyne, as it is seid. Also lefe; 12
of caprifole brissed by þam-self and with al his substance
without medlyng of any oper þing, putte vpon vlcere; of
leggez desperate & stynkyng, and puttyng out foule blode,
and growyng hi;e to maner of a cancre, and vnobedient to 16
any medicyne, cureþ þam happily and meruelously. And
þis proued I in þe legge of a grete man hauyng a pustle,
In curyng of which al medicyne; defailed; and with þis
was he cured. ffor whi; þe first tyme þat it was putte to 20
it dried þe fistule, and did away þe stynkyng and al þe
yuel accident; and within a moneth he was plenarely cured.
24. [P]ulvis sine pari, or french Poudre sanz pere, is
made þus: *Recipe* auripigment. parte 1, þat [is] 3ii; vert- 24
grese ana, or after som men partes ij; Of vitriol combuste,
or nozt combuste, als mich as of boþe þe forseid; Alum
zucarine combust, or nozt combuste, als mych as of al þe
forseid. Ich on of þise bi þamself be ful subtilly grouden 28
on a stone, þe which wele y-growden, be þei eft-sone
grouden al to-gidre vnto þai be ri;ht wele medled; and
putte þam in leper bag, and kepe to vse: þis may be kepte
bi a 3ere and longer, and þat in gret effecte. þis poudre 32
is seid "without pere" ffor it haþe no pere in wirchyng;
ffor why; it mortifieþ and brynges out dede flesch or
superflue or putred in al wonde; and vlcere;. And witte
þou þat þis puluis bigileþ neuer þe paciente ne þe cirurgene, 36
for it doþ not wickedly. ffor whi; if þe cirurgene bene
vnkunyng and putte þis puluis in a wonde or in ane
vlcere nozt hauyng dede flesch, it doþ none harine to þe
wonde or þe vlcere; bot without any oper help it schal 40

at þe best be conglutinatiue, dissiccatyue, and sanatyue of
 þe wonde; bot neperlesse nozt without mordicacion. ffor,
 for certayne, if þis puluis war nozt mordicatyue it schuld
 4 in prise passe al medicyneþ. þe vse of þis puluis is sich;
 when þis puluis is putte in a wounde or in ane vlcere, be
 þer putte to it, without any-þing atuiþ, cotone or stupeþ of
 lyne cutte smalle with schereþ; And þan aboue al þat be
 8 put aboue emplastre Nerbone or anoper, and be it bounden,
 and so latte it be wipout remouyng by two nyghteþ. *After
 þis tyme, forsoþ, when þou remoueþ þe emplastre and þe
 coton or þe stupeþ putte aboue þe puluis, If þe puluis
 12 putte in go willfully out with þe dede flesch þi nedeþ is
 wele sped. þan owe þou for to putte in þe hole of þe
 vlcere or of þe wonde a drop or tuo of sanguis veneris,
 with stuppeþ of lyne or coton, vnto þat þe hole be eft-
 16 soneþ replete with flesch. And if, forsoþ, in þe first
 remouyng þe puluis putte in come nozt wilfully out with
 þe mortified flesch, þan ow þe lech for to putte o droppe or
 tuo of sanguis veneris vpon þe puluis in þe wounde or
 20 þe vlcere, and aboue coton or stuppeþ of lyne, as it is seid.
 And aboue al-togidre þe emplastre Nerbone; and so lat
 it abyde by a naturale day or more after þe estimacion of
 þe discrete leche. And when þe dede flesch goþ out of þe
 24 vlcere or of þe wounde, be it reparaild as it was seid afore.
 And to a leche be þis a reule, þat puluis corrosyue be
 neuer remoued in a wounde or ane vlcere byfor þat it wille
 wilfully go out. Also þer is anoper reule in which I haue
 28 sene erre in my tyme almost al men nozt practizours bot
 foleþ; þat is to say of þe ofte remouyng of woundeþ or
 vlcereþ. Siche operacion, for-soþe, spedþ nozt, bot letteþ
 couenable effecte of curyng. And þat by þis reson, for
 32 natural hete in þe body, which is principal actour of
 curyng, expireþ¹ out of ofte remeuyng of a wounde or of
 ane vlcere, and so is letted digestion of humours comyng
 to þe wounde or to þe vlcere, Wherfor þer may nozt be
 36 nade generacion of quitour and, by sewyng, ne purgyng
 of þe wounde. Wherfor superflue humours rennyng to þe
 wounde ar gedred togidre and ar holden stil more and
 more; wherfor þe boluyng in þe wounde is augmented

and method
of applica-
tion.

[* leaf 169]

The treat-
ment of a
wound with
dead flesh.

Two good
rules for
surgeons—
(i) Let
caustic
dressings
remain till
they are
cast out.
(ii) Do not
dress
wounds too
often.

The results
of neglect-
ing these
rules.

¹ "breþeþ" overlined.

A menstruating woman is noisome to wounds,

and so are garlick and onions.

Dress a wound once a day only.

The value of sleep to a sick man.

[* leaf 169, back]

Soothing applications.

Arderne used to dress his wounds every third day.

and, by sewyng, þe ake ; for þe tone is occasion of þe toþer. Wherfor þe wounde or þe vlcere waxeþ hard and foule, and for þe quitour þat it owed of riȝt to putte out, it sendeþ out watry humour & venomous, and so ofte-tymeȝ 4 of liȝt hurtyng ar made incurable yueleȝ. Also þer is anoþer errour in ofte remeuynge of woundeȝ or of vlcereȝ ; ffor as seiþ philosophreȝ, aier chaungeþ þe body and by consequens þe wounde, and þat may be proued by ex- 8 perience. þe breþ of a menstruous woman noyeþ vnto woundeȝ if sche neȝen nere ; Or of þe lech if he haue liggen *with* his wife or *with* anoþer woman menstruate, or if he haue eten garleke or onyons. Bot be þis maner of 12 wirchyng boldly holden, þat a lech be content only of ane reparacione in þe day, þat is if he haue þe medicyneȝ contened in þis boke. ffor when he seþe a wounde or ane vlcere wele cast out quitour, and þe bolnyng for to vanysh 16 away, and þe akyng for to be cessed, and þe membre for to come agayne to þe first habite and colour, helpe is at þe dore if þe pacient be we[le] gouerned, i.[e.] if he slepe wele in niȝtes. In slepe, forsoþ, nature wirkeþ 20 better aboute digestion of euery mater beyng in þe body or in þe membris. Bot for þat slepe is oftyme letted of akyng, þerfor bifore al pingȝ be it laboured þat þe akyng be cessed. *ffor akyngȝ afor al oþer pings 24 noȝt only presseþ downe vertueȝ of þe body but also of þe medicyneȝ. And þat ping soueranly mitigateþ oile of rose in hote cause, or oile of camamille in cold cause, for it is hote and resolutyue, of which it schal be seid after- 28 ward. Also ane emplastre of hony and branne and a litil vinegre fried togidre mitigateþ¹ euery akyng for certayne. And witte þou þat þo pingȝ þat ar putte aboute makeþ to þe closyng-in of naturale hete and excludyng of þe aier. Be 32 þise pingȝ seid afore of remeuynge of woundeȝ and vlcereȝ comended wele to mynde ; And be it done boldly as it is seid, ffor oftymeȝ in many caseȝ I was noȝt wount for to remoue bot fro þe þrid day into þe þrid day, and þat 36 namely in hurtyng of þe schynneȝ ; and I sped wele, And I cured many hard pingȝ and forsaken of oþer men *with* þis puluis sine pari and oþer emplastreȝ y-named. And I

¹ "eseþ" overlined.

saw neuer in al my tyme þis forseid puluis defaile, out-
take in þe legge of a gret man in which it miȝt noȝt haue
no strength of wirchyng as it was wont for to haue in
4 oþer; wherfor I was hugely astoned, bot neþerleȝ I heled
hym wele with grene licium putte þer-to, our lorde beyng
mene, as it is seid aboue.

Pulvis sine
pari only
once failed
Arderne.

25. [A]nd for þat many men couaiteþ for to here
8 nameȝ of oileȝ and of emplastreȝ and of oynt-
mentȝ, þerfor I haue putte þair nameȝ to þam. One for
þe rednes and swetneȝ is called sanguis veneris. Of
french, forsop, for ladieȝ is called sank damours or sank de
12 pucell, ffor why; venus was called goddeȝ of luffe.
Sanguis veneris ow þus to be made: *Recipe* puluis of
alcannet ȝl. and putte it in a quart of comon oile, and þe
oile schal become rede to likneȝ of blode, wheþer it be
16 boiled at þe fire or noȝt, for it may be made on boþe
maners; and be it kept to vse in ane erþen potte or a
pewdre potte. þis maner of confection of sanguis veneris
is riȝt gode for þe alkenet þat is cold and drye in þe first
20 or second gre. ffor þis alkenet consumeþ humiditeȝ of
woundeȝ and of vlcereȝ, for it is subtiliatyue and resolu-
tyue without mordicacion, and carminatyue & appertyue,
and exsiccatyue with stiþtikneȝ. Wherfor it is gode in
24 hote apostemeȝ with litel mater in þe bygynnyng, for it is
cold and drye and þerfor it is repercussyue and exsiccatyue
of hote apostemeȝ. Also it helpeþ to synues and iunctureȝ,
and vlcereȝ of þe mouþe in drying. And it medled with
28 vinegre & ynoynted helpeþ to þe akyng of þe heued. San-
guis veneris helep wele, and purgeþ, and defendeþ fro drede
depe woundeȝ made wyth knyfe or arow, and holow vlcereȝ,
if it be putte in with stuppeȝ of lyne, And emplastre
32 Nerbone putte aboue, And it doþe al þingȝ þat perteneþ to
cure of a wounde or of aposteme, and þat in a fair maner.

Pulvis san-
guis veneris,

called in
french sang
d'amour, or
sang des
puelles.

Its mode of
preparation:
(i) for ordin-
ary use,

Bot witte þou þat Sanguis veneris may be made on
anoþer maner, and þat to noble men, if þe lech may haue
36 in tyme of his confection al þings necessarye vnto his
confection, þat is to sey þe blode of a maiden virgyne or
of a maiden damisel about 19 or 20 ȝere, which was neuer
impregnēd,¹ þof sche be corrupte; for now in þis tymeȝ

[leaf 170

(ii) for the
better
classes.

¹ "with child" overlined.

A prescrip-
tion for
making a
confection
of sanguis
veneris.

A method of
using the
confection
sanguis
veneris.

An ointment
called Salus
Populi.

The method
of its prepar-
ation,

how to use
it,

and in what
cases.

Use a
fomentation
first.

virginez comeþ ful seldome to 20 3ere. Which blode ow
to be drawn out in þe ful of þe mone, þe mone beyng in
virgine and þe sonne beyng in piscibz. Also it bihouep
þe lech haue to þis confection aloes, & mirre, & sanguis 4
draconis, and puluis of alkenet. And þus is it made:
Recipe blode of a maid, as it is seid afore, to þe which
alsone after þe drawyng out, or it be cold, medle puluis of
aloes cicotrine, mirre, sanguis draconis ana 3l or 2 or 3, 8
after þe quantite of þe blode; of subtile puluis of alkenet
als mich as of al þe toper. And al pise, forsoþe, be wele
medled with þe blode in maner of a paste, and afterward
dry it at þe son: when it is drie kepe it to pine vse. 12
When þou wilt, forsoþe, vse þerof, tak a party of it or al,
and poudre it wele, and seþe it in grene oile of olyueþ als
mich as sufficeþ; þat is to ane vnce of þe forseid confec-
tion þou ow to putte 2 lb. of oile, þat is a quart of a galon, 16
or more if it be nede, and boile þam togidre vnto þat þe
oile appere rede; which beyng rede, putt it of þe fire,
(sette it of þe fire) and kepe it to pine vse. And when it is
boiled cole it nozt bot lat it abide with þe oile, for it will 20
satle in þe grounde, and so it will strengþe þe medecyne.

26. [A]n oyntment þat is called Salus populi is made
þus: *Recipe* celidon M.ij, edere terrestris¹
M. i, and brysse þam togidre; and afterward take herteþ 24
talow or schepeþ talow or boþe, als mych as sufficeþ to þe
quantite of þe herbeþ; And of oile of olyue als myche als
half of þe talow; and boile al with þe forseid herbeþ vnto
þat þe herbeþ go to þe grounde of þe vessel and be made 28
blak; afterward cole þam and lat þam cold, and kepe it
to vse. Þis oyntment is hard, and þerfore when it is nede
to vse it take of it and putte in ane holow oistre schelle
and melt it aboue coleþ, or aboue a brynnynge candel; And 32
wher þat nede is anoyte þerwith. And witte þou þat it
ow nozt to be putte in woundeþ or vleereþ bot only about
þam withoutforþe, þat is if þe skynne about þe wounde
be flaien or skalded of hete, or if it haue many puscheþ² 36
& smale, white or rede or blak; þan be þe skyn first wele
fomented with a sponge & hote watre, And after þat it is

¹ "hayhoue, folefote, horshoue" overlined.

² "blayneþ" overlined.

dried be it anoynted *with* þis anoyntment hote aboue þe place flaien or pusched, And alsone without any þing atuix: if it be nede in grete case; þou may anoynte it 4 aboue *with* vnguento arabico or *with* comon vnguento albo for to kele it more strongly and dry.

Salus populi, forsoþ, dryeþ wele and sicatriþeþ, and it 8 avaiþeþ at þe best to lippeþ y-brent of þe sone or chynned of þe wynde, and to leggeþ and fete and handeþ; and it avaiþeþ agayn; brynnyn of fire, and it quencheþ þe wild fire after þe fallyn of þe puscheþ. þis oyntment wold I neuer wante for many benefeteþ of it, And witte þou þat 12 it is best remedi to þam þat haþe þe emoroides or þe fistule or oþer sleying.

27. [A]ne emplastre þat is called Nerbone is made þus: The Nerbon
Recipe diaquilon, and *with* comon oile or *with* oleo siriaco plaster.
16 resoluþ it vp[on] þe coleþ, and boile it alwaieþ *with* a spatule vnto it bigynne to wex blak. And if þou wil The method
haue it riȝt blak boile it langer, and if þou wilt haue of prepara-
broune boile it lesse. ffor whi; by long boilyng it may tion.
20 be made most blak *without* medlyng of any oþer þing. And after þat þou wilt haue it hard or softe be added þerto, or minusched, oile *with* which it is resoluþ. When it hap boiled ynouþ sette it fro þe fire and late it stande
24 stille *without* mouyng by þe space of a 'pater noster' & 'aue maria,' þat þe litarge of þe lede þat is in it may descende to þe grounde; and alsone be it ȝette out softly into anoþer panne þat þe litarge be noȝt ȝette out *with*all,
28 and þan moue it *with* a spatule strongly vnto þat it be colded. When, forsoþ, it is cold þat it may be malaxed, enforme þerof trocistes vpon a table in quantite as it pleseþ þe, and kepe it to þine vse. þis emplastre is called Noir-
32 bone, for þof-al it be blak neþerlesse it is gode, for it heleþ wele wondeþ and vlcereþ, and it is wele cleuyng to, and it matureþ wele apostemeþ and bresteþ þam in any place of þe body.

To stand so long as it takes one to say a pater noster and an ave.

To be made into pellets.

Whence its name.

36 28. [O]leum Siriaccum is þus made: Recipe comon Siriac oil,
malueþ of gardyneþ, fatte & fresch, and somewhat brisse hem in a morter, And after boile hem long in comon oile bot noȝt vnto þe consumyng of þe herbe, þat þe fatnes of

- and plaister. þe maluez be noȝt consumed. And if þou wilt make it
þikke to maner of ane emplastre, þan ow þou for to putte
with þe oile as war þrid parte of schepez talow, and boile
hem togidre as it is seid, and kepe it to vse. 4
- Unguentum
Arabicum. 29. Vnguentum arabicum, Tapsimel (in þe last end of
emoroideȝ), Diaflosmos: seke hem in þe trefyse of þe
fistuleȝ.
- [leaf 171]
Pulvis
Grecus. 30. Pulvis grecus is þus made: *Recipe* auripigment. ci. 8
trin. piper. nigri, calcis viue, alþice, i.[o.] barlymele ana,
hony clarified partes iij, vinegre þe ferþe parte; be þai
meddled with þe forseid poudrez in maner of paste, and be
per made a kake þerof, and be it baken on a hote tyle 12
stone ouer þe fire so þat it be noȝt brent bot þat it may
be wele poudred vpon a stone. And when it bigynneþ
to wex blak on þe tile-stone be it oftyme turned þat it be
and uses. noȝt brent bot þat [it] be perfetely dried. With þis pulvis 16
haue I cured sich fikeȝ puttyng out blode, & growyng in
þe palme of a manneȝ hand. And if þou haue noȝt pulvis
grecus þou may do þe same in þe forseid þings with pulvis
sine pari. And wytte þou þat I haue oft tyme sene pulvis 20
grecus for to auaile in þe cancre of a manneȝ ȝerde, and in
fikeȝ bredyng þer-about.
- Oil of Roses. 31. [O]ile of roseȝ is þus made: *Recipe* roses þat
bene ful spred, and gredre hem erly whileȝ 24
þe dew lasteþ, and clyppe hem with a paire [of] scherez
Its prepara- in smale pecys and do hem into a glazen vessel, and do
tion. þerto oile of olyue of þe grenest þat þou may fynde, ana,
& medle hem wele togidre in þi vessel and stoppe it wele; 28
And hete it agaynȝ þe son 20 daies and þan draw it þurȝ
a kanuaȝ and cast away þe groundȝ of þe roseȝ, And putte
þat liquour þat comeþ out into a vessel aȝeyn and stoppe
þe vessel þat þer come none aier out. And ich day in þe 32
mornyng when þou schalt hyng out þi potte tak a spatere
of tre and opne þi potte and stirre it wele, and stoppe it
agayne duryng al þe 20 daies.
- Another
preparation. Another maner [of] makyng, and more colde. *Recipe* 36
roseȝ & oile ana, and schred þi roses and putte hem into
a vessel of glasse with þine oile, and stoppe it wele. And
hang it into a vessel with watre vp to þe nek duryng tuo
moneþȝ, and euer ich day stirre it oneȝ and stoppe it 40

azeyn. And after þat streyne it and do away þi groundez
 of þe rosez. And þis is more cold þan þe toþer. Also it
 is made þus after my maner and myne vse. If þou haue when roses
are scarce.
 4 nozt plente of rosez take of white roses with þe tendrons
 of þe braunchez als mych as þou wilt, and brisse þam in a
 mortar; þe which y-brissed, putte þam in als mych comon
 oile as þe likeþ, and so latte þam rest 9 daies; afterward
 8 boile þam vpon softe fire vnto þe oile be made grene. þan
 if þou may haue fresch rosez putte þam in ane erþen potte
 or leden, als many as þe likest; and be þe forseid oile
 coled hote zette aboue and moued togidre with a spatule,
 12 And alsone stoppe þe moupe, þat þe vapour go nozt out.
 And biry þe vessel with þe oile in moist erþe, and euery
 oþer day be þer zetted cold watre about þe potte. And
 be it þus done 40 daies or more, & þis maner confection
 16 schal be most noble oile roset. And þus ow it to stonde
 al þe hole zere.

32. Oile of violettez may be made in þe same maner. [leaf 171,
back]
Oil of
Violets.
 Bot witte þou þat oile of violettes is laxatiue and oile of
 20 rose constrictiue. ffor why; if oile of violettz with euen
 porcion of iuyse of Mercurial¹ be zetted in by a clistery in
 continuel acuez or interpolate, it remolleþ softly þe bowelez
 and putteþ out þe superfluitez. Oile of violet haþe aspecte Its uses.
 24 to membrez þat bene dried by any infirmitè. It abateþ
 bolnyngz wher þat euer þai be; And it softneþ þe asperitè²
 of þe brest and of þe long, and it ceseþ pleuresy and hote
 apostemez. And witte þou þat þer is tuo manerez of oile Oil roset,
 28 roset, complete and rude. Complete is made of ripe oile
 and of ful rosez ripe. Rude is made of vnripe oile and
 of rosez þat haþe [not?] fully opned þair buddez. Oile
 roset complete is resolutiue, confortatyue, and con-
 32 ueniently cedatyue³ of akynge. Rude forsoþe is extinctiue
 of inflammacions, confortatyue, aggregatyue, inspissatyue,
 prohibityue of cursez of humours. Oile of roses is special how it acts.
 36 euer þai be in þe body. ffor whi; in ane or tuo puttyngs
 to it mitigateþ þe akynge, it dulleþ þe furiositè and þe
 scharpnez of þe mater; It makeþ þe place for to vnbolne,⁴

¹ "smarwort" overlined.³ "cesyng" overlined.² "scharpnez" overlined.⁴ "swage" overlined.

It should
always be
kept in
stock.

Preparation
of Oil of
Camomile.

Another
preparation
when the
flowers are
scarce.

[* leaf 172]

Its uses.

and it remeueþ þe rede colour. ffor-soþe it swageþ and
softeneþ þe brennyng & þe prikkyng, þe smertyng and þe
akyng, And it comferteþ þe membres boþ in hote causes
and in cold ; ffor after auctours, Oile roset coldeþ ane hote 4
membre and hetep a cold membre. And it doþ many oper
profiteþ in þe body, And þerfor a gode lech puruey hym þat
he want neuer oile rosette, syþe þer procedeþ so many help-
yngz of it to mannez body. ffor why ; after galien, to euery 8
akyng hote oile rosette is mitigatyue, as it is seid afore.

33. [O]ile of camamille is þus made: *Recipe cama-*
mille grene and fresch, and brisse it som-
what in a mortar. After boile it with a softe fire in 12
comon oile als mych as sufficeþ. And putte a litel watre
in þe oile þat þe herbe in seþing be noȝt brent ; and boile
it vnto þe herbez go doune to þe grounde and bigynne to
be blak. Which y-done, take flours of camamille, if þou 16
may haue þam, and putte þam in ane erpen potte ; And
zette þe forseid oile coled, als hote as it may, aboue þe
floure, and alsone couer þe moupe of þe potte with par-
chemyne and sette it in a saue place. fforsoþe if þou may 20
[not?] haue flours of camamille in tyme of pi confeccion,
þan in-stede of floure, tak M.i of þe tendre braunchez of
camamille and putte þam with-out any brissyng in a potte,
and putte oile riȝt hote vpon þam, as it is seid afore. 24

*And afterward when þou may haue flours of camamille,
take þe forseid oile with þe braunchez of camamille and
boile þam eftsoneȝ vpon þe fire ; and as it is seid afore,
putte to a litel watre or elleȝ a litel vinegre, þat is better, 28
þat þe oile may be more penetratyue, and boile it vnto þe
wastyng of þe watre or of þe vinegre ; and þat is knowen
by boiling of þe oile made with noyse ; þan cole it, and
zette it riȝt hote vpon þe floure, as it was seid. Oile of 32
camamille is temperate, and it is a blissyd ping of many
helpyngs, and it is a conuenient resolutyue, and of akyng
sedatyue, and it is prohibytyue of curseȝ of humours for a
litel stiptiknez in it. It comferteþ synoweȝ and al synuy 36
membryeȝ ; It helpeþ to þe akyng of þe heued, And gener-
aly it availeþ to al akyng, and it is conuenient to al com-
plexions, and it is riȝt subtile. And als mych as it
dissolueþ so mych consumeþ it.

34. [O]ile of masticus is made þus : *Recipe Masticus* Oil of Mastick. Its preparation.
 3 1, thuris albi alexandrie 3 ½ ; be þai poured & decocte in 1 lb. of oile of rose or of almandez or
 4 of notez ; and when it is cocte yno3, cole it and kepe it to vse. þis oile helpeþ to euery akyng, of þe stomak, of þe
 iuncture3, of þe schuldrez, anoynted agayne3 þe fire, and
 to akyng3 of þe lyuer and of þe splene, putte to hote with
 8 lana succida. It comforteþ vertu assimilatyue in a
 membre febled ; wherfor it helpeþ to men in þe ethic, in
 þe ptisik, and disposed to þe lepre and to þe morfee, and to
 old men and consumed. And anoynted it moisteþ þe Its uses.
 12 skynne, and reuokeyþ and restoreþ þe flesch consumed, and
 comforteþ þe stomak and makeþ it to diffy in cold cause ;
 it represseþ þe abhominaciones of þe stomak, it giffeþ
 appetite, it scharpeþ þe mynde, It consumeþ al cold
 16 passions, It availeþ to hole men and to seke in al
 necessite3. When þou wilt make þis oile agayn3 þe vices
 of þe stomak, þan may þou make it with oile in which ar
 sopen som þings pertenyng to confortyng of þe stomak, as
 20 wormode, Mynt, Macis, galinga, & sich oþer, And so schal
 it better spede. Things to be added when it is used as a stomachic.
35. [O]ile of almandez is made þus : *Recipe amigdal.* Oil of Almonds. Its preparation.
 dulcis, old & no3t new, lb. ½, and tak of þe
 24 skynnez with hate watre ; afterward brisse þam lang &
 wele without medlyng of any oþer þing ; which y-brissed,
 be þai putte in a new strong bagge of lynne clope, and
 hyng þat bag ouer þe caldron or ouer a potte ful of boilyng
 28 water, so þat þe bagge touch no3t þe watre bot þat only it
 receyue þe fume of þe boilyng watre. Afterward presse
 þe bag strongly and receyfe þe oile þat comeþ out * and
 kepe it to þine vse. Bot witte þou þat þis oile may no3t
 32 long endure. It availeþ mych agayne brynnynge of vryne
 within in þe 3erd, If it be cast in wyp a syryng, And
 agayns oþer brennyng3 also. [* Leaf 172, back]
36. [W]atre of almandez is made þus : *Recipe* Almond water. Its preparation and uses.
 36 almandes dulces clensted of þair skynnez
 and dried, and brisse þam in a mortar without medlyng
 of any oþer liquour ; And after distille þam as þou dis-
 tilleþ rose watre. þis availeþ agayn3 brennyng of þe

sonne in þe face, And also agayn3 brynnung in a mannez
3erd, put in by a siryng.

Oil of
Juniper,
how dis-
tilled.

37. [O]ile of Iunipre is made þus: *Recipe* a new
erþen potte, and putte it into þe erþe euen to 4
þe mouþe; þan tak anoþer erþen potte whos bothme may
be receyfed within þe mouþe of þe potte þat standeþ in þe
erþe; And putte ane holowe canel of yren þur3 þe bothme
of þe ouer potte into þe neper potte þat standeþ within þe 8
erþe; þan tak dry stikke3 of Iuniperi and kutte þam
smaal and putte þam into þe ouer potte, and þan lute þe
mouþe3 of boþe pottes with clay medled with horsdong.
And make a fire al aboute þe ouermore potte, And þan 12
scha[1] oile distille þur3 þe canel into þe lawer potte, þe
which kepe for þin vse, for it is ful noble for akyng. It is
gode for al maner goute and for þe parallesy.

Its uses.

Ointment of
Juniper.

38. [A]lso ane enoyntment made of it to wonde3 16
þat vnneþ bene curable and long tyme
haue bene in þe bone3: *Recipe* fruyte of Iuniperi &
fresch lard of a male swyne and brisse þam togidre;
Afterward take 3 partes of ri3t strong white wyne and 20
seþe þe forseid þing3 in it, and when it is pikke sette
doun fro þe fire. And putte þerof to þe forseid sore3
& wonde3. It purgeþ, it filleþ, it heleþ & it cicatrizeþ.

Its prepara-
tion

and uses.

A good
plaister for
the gout.

Its prepara-
tion.

39. [A] gode emplastre for þe goute: *Recipe* blak sope 24
als mych as sufficeþ, to which putte als mych
of raw 3olke3 of eyren as is half of þe sope, and medle
þam strongly in a dish or in a box vnto þat þe sope lefe
his owne colour; þe which y-done, putte it with þi fynger 28
or with a spatule vpon subtile stupe3 of lyne and applie it
faste vnto þe akyng place. Aboue þis emplastre, forsoþe,
putte a strictorie of white of eiren and mele of whete and
lynnen cloute3 y-dipped þerin, and putte it fast & applie 32
it aboue þe forseid emplaster þat it be no3t remoued byfore
dew tyme, bot if any competent cause aske it. þis medy-
cyne is lizt *but no3t litel effectual, þat haue I proued
ofttyme3, als wele in wyemen as in men; þat with one3 36
puttyng to it ceseþ ful grete akyng3 als wele in þe kneez
as in þe fete and in oþer ioynture3; bot be-war þat it be
no3t perceyued of þe pacient ne of none oþer; hold it
pryuè and chere, and schew it no3t bot to þi son or ane 40

[* leaf 173]

So good that
it should
only be
shown to
one's son.

als wele biluffed. I trow, forsop, þat it availeþ bifor al oper medicynez to þe goute, and more sone abateþ þe akyng. And it ow 5 daieþ or 6 to lye stille without 4 remeuyng if it may so bene applied.

40. [W]alwort¹ is ane herbe like vnto el[d]re in lefeþ and fruyte. In odour it is sumwhat greuou and stynkyng. In tast it is as war bitter, bot in vertu anence old men it 8 is deemed expert and effectuale, and kynde & free to medicyne in many vseþ; witnesse plinius, diascorideþ, macrobuþ and many oper, whos roteþ, ryndeþ, and brancheþ and leueþ and floureþ bene profitable in medicynez. It 12 hape vertu of dissoluyng, consumyng of gret flemme and viscose with þe iuyse of it. It availeþ agaynþ þe gutte of þe ioyntureþ and contraccion of synueþ of þe heude & of þe fete. It availeþ also agaynþ bolnyngþ and collections 16 intercutanieþ wher-so-euer þai bene gedred in þe body. Also it availeþ most agaynþ brissyngs of membreþ and falleþ, if þe membreþ be fomented in his decoctions. ffor why; it mitigateþ þe akyng, it ceseþ þe bolnyng, it minis- 20 treþ vertue and strength to synoweþ and to ioyntureþ. It availeþ agayneþ bolnyng of þe womb of cold y-dropisy, if his Iuyse be dronken with hony and comyne. And witte þou þat þe Iuyse of walwort, or þe poudre of it if it be 24 hadde redy, is namely in euery medicyne þat is restrictyue of blode. þe maner of makyng and kepyng of it is as þe maner of licium seid afore.

Walwort
and its
virtues.

The uses of
walwort.

41. Valence of scabious or of Iacee albe is þus made: 28 Recipe Iuyse of scabious in somer, and cole it þurþ a clope; and tak swyneþ grese elensed of þe skynneþ and stamp it wele in a morter in smytyng it bot noþt in brekyng vtterly; and euermore putte in a litel of þe iuyse to þe 32 grese þat it may wele be imbibed and þat þe talow may be made grene; þe which y-done, tak þat grese and couer it with þe forseid iuyse and so late it stand 9 daieþ. And after 9 daieþ take eftsone þe forseid grese with þe iuyse 36 and stamp it as afore, and putte out þat pinne watryneþ and discolored þat gop out þerof, and so lat it stande 5 daieþ. *After þe 5 day eftsone tak new Iuyse of scabious and stamp it, as it is seid, with þe forseid grese; þe which

A valence of
scabious.
Its prepara-
tion.

[* leaf 178,
back]

¹ "ebulus" overlined.

- y-done, latte it rest in a vessel *with* þe iuyse al a fourt-nyzt; which tyme ouerpasseþ, eftsoner beto it as it is seid afore, and purge it of þe watrinez, and putte it in a clene vessel, and lat it stand stil anoþer fourtniȝt, And þan 4
- Its uses. brisse it wele vnto þat it be al of grene colour. And whan þe nedep for to vse þerof, as vnto þe antrax, putte þerof *with* þi fynger vpon clene stuppez of lyne, and strech it and lay it on þe antrax anoynted *with* oile of rose, and 8 remeued it noȝt by a naturel day. ffor *with*out dout it schal slee þe antrax and swage þe akyng, and brist it and vtterly cure it. And þis medyc[in]e is called Valence of scabious for þe valow of it. It may be kepte many zereȝ, 12 bot it is better if it be euery zere renewed and bette newly *with* oile roses, and putte vp agayne vnto it nede. And witte þou þat scabious y-dronken sleeþ þe antrax, and putteþ away þe venym of it fro þe hert þat it sle noȝt þe 16 pacient. Also þe same herbe ydronken turnep inward apostemeȝ to outward and putteþ þam out insensibily. Also witte þou þat new scabious & fresch y-brissed *with* swynes grese and putte vpon antrax sleeþ it in a day 20 naturel, and takeþ away þe akyng for certayne. Bot for þat scabious may noȝt euermore be had redy & fresch, þerfor was þis medicyne made þat may long be kept, þat wonderfully sleeþ þe antrax and vtterly cureþ it, as I haue 24 proued myself ane hundreþ tymeȝ. Also witte þou þat Iacea alba is scabious, bot Iacea nigra is matfelon. And witte þou þat þat scabious þat growep among corneȝ *with* ane heuenly flour is better þan þat þat growep in mydoweȝ 28 þat hap no flour. After diascorides trowe þou to þis þat it hape no pere to þe forseid þingȝ wonderfully to be done, and þat softly. I haue proued it a hundreþ tymeȝ for certayne. 32
- A valence of wormwood. 42. Valence of wormode is þus made: *Recipe* iuyse of wormode, smalach, plantayn, and *with* swyneȝ grese clensed wele of þe skynneȝ brisse it wele and long togidre in maner as it is seid afore of þe valence of scabious; þe 36
- Its uses. which y-done, kepe it to þin vse. þis valence of wormode auaileþ to brissyngs of legges and of schynboneȝ, and to woundeȝ þat ar made in þe muscleȝ * of þe armeȝ and of þe legges *with* a streȝȝt wounde, as of a knyfe or of ane arowe, 40
- [*leaf 174]

A reasonable governance of lawes of lywyng



Esculap[us] helyd menne to
foryng & medycines

Asclepi[us] taught to gader rotes
& herbes floures & frottes



Asclepi[us] sheweth maner how to
gather herbes & frottes

Ypocras & galien schewe certayne quantitez
in preseruyng



- (1) A reasonable governance of lawes of lywyng.
- (2) Esculap[us] helyd menne with fhernces & medycines.
- (3) Asclepi[us] taught to gader rotes, herbes, floures, and frottes.

- (4) Asclepi[us] schewed mesures and quantitez, weightes and wares.
- (5) Asclepi[us] techeth to make puluere; confectiounis & electuaries.
- (6) Ypocras & galien schewe certayne quantitez in preseruyng.

or of sich oþer. And it availeþ to al woundez for to hold þam opne, and for certayne it mitigateþ wele þe akyng. When þe nedeþ for to vse þerof in woundez, zette in first of oile of rosez or of violet 2 droppez or þre, and anoynt al 4 þe wounde about of þe same oilez, and þe membre pat is hurt. And afterward putte aboue of þe forseid valence vpon softe stupez of lyne, and bynde it competently, and lat it so abide a naturel day. þis medicyne, forsoþ, 8 represseþ wele bolnyng and akyng and holdeþ þe wounde opne, and gendreþ quitour, and draweþ out venym of þe wounde, and quencheþ þe brynnnyng of þe membre. þis oyntment, forsoþ, luffed I mych; with þis medicyne cured 12 I a fischer at london, which was hurt in þe lacert of his arme of þe prikkynge of a scharp yren standyng on þe gymeweþ at þe frere Caromeþ¹; Wherefore he was almost dede, what of akyng, bolnyng, and brynnnyng, and what 16 of þe vncouenable cure of a barbour pat putte in þe wounde scharpe tenteþ of lynne cloþe, and putte aboue diaquilon. His cure, forsoþ, remoued away, I putte to about euensang-tyme of þe forseid valence with anoyntyng 20 of oile of roses, And bifore cokerow þe pacient was delyuered of akyng and þe arme biganne for to swage,^a and in the mornyng he sleped wele, and þe arme was purged of quitour by the wounde. Bot witte þou þat I 24 putte no tent in þe forseid wounde, bot al-only with 3ettyng in of oile and puttyng aboue of þe valence without any-ping atuix I cured hym finaly; wherfor I gatte mych honour. At nothyngham, forsoþ, I cured anoþer 28 þerfitely with þe forseid medicyne, þat was smytten in þe arme, bot nozt þorow, with a knyfe; of whos life men despaired for akyng and anguysch of þe pacient.

43. Puluþs for to make a man sleep agaynz his wille, after 32 maner of Ribaldez and trowans in fraunce, þat felawshypeþ þam by þe waiez to pilgrimeþ þat þai may robbe þam of þair siluer when þai ar aslepe. *Recipe* semen iusquiamus, 3izannie; i.[e.] darnel, papaueris nigri, i.[e.] chessede, de 36 radice brionie sicc., ana; brek al-togidre in a brisen mortar into ful smal poudre, of which poudre giffe hym in his potage or in a kake of whete or in drynk, & he

A case cured
by this
valence in
London,

and another
at Notting-
ham.

A sleeping
powder used
by rogues in
France.

1 cum hac
medicina
curavi quen-
dam pisten-
arium apud
London.
qui ex punc-
tura ferri
acuti stan-
tem super
legimeus
ad fratres
Carmeli in
lacerto
brachii
læsus.

^a "vnbolne" overlined.

schal slepe alson, wille he wil he nozt, al-aday¹ or more after þe quantite þat he hafe taken.

Pillules for to prouoke slepe: *Recipe amides* ʒj, croci ʒiij, opii ʒj; Make þam wyth watre of roses and make pillule¹ and giffe þam; And he þat takeþ þam schal slepe for certayne.

¹ B Amidi ʒi: croci ʒiij: opii ʒi. Con- fice cum aqua rosa- rum et pilu- las deinde forma.

[leaf 174, back]
Pills to cause sleep.

Ane vntement slepyng, with which if any man be anoynted he schal mow suffre kuttyng in any place of þe body without felyng or akyng. *Recipe succus*

An ointment to prevent pain.

² Succus hyoscyami.

iusquiami,² Mandrage, Cicute, lattuce, papaueris albi & nigri, and þe sedeʒ of al pise forseid herbez, if þai may be hadde, ana; opii thebaici, opii Miconis ana, ʒj or ij; fresch swynez grese þat sufficeþ. Breke al pise wele & strongly togidre in a morter, and afterward boile þam strongly and þan cole þam. And if it be nozt pikke ynoʒ, putte to a litel propoleos, i.[e.] white wex, and kepe it to pine vse. And when þou wilt vse perof, Anoynt his front, his pulseʒ, his templeʒ, his arme- holeʒ, and his loneʒ of his heud and his fete, and alson

Its prepara- tion.

How used.

³ Unga fron- tein pulsus, axillas, volas manuum et plantas pedum et statim dor- miet patiens nec incisio- nem sentiet

he schal slepe so þat he schal fele no kuttyng.³ þis is also if a man may nozt slepe for oper cause, as in febreʒ or sich oper, for þis oyntment ouper schal giffe hym remedy, or þe pacient schal die. Also one grayne of opii thebaici to þe quantite of ʒss., distempered with a pynte of wyne^a or more after þe miʒt of hym þat schal drynk it, schalt make hym þat drynkeþ it for to slepe. Also þe sede alon of iusquiami albi giffen in wyne to drynk make þe dryer alson for to slepe, þat he schal nozt fele what- so-euer is done to hym. And þis proued I myself for certayne. And witte þou þat it spedþ for to draw hym þat slepeþ so by þe nose and by þe chekeʒ and by þe berde, þat þe spiriteʒ be quickened þat he slepe nozt ouer rist- fully. Also be þe lech warre þat he giffe nozt opium without croce for to drynk, for crocus and cassia lignea bene þe frenez, i.[e.] bridelleʒ of opii.⁴

Method of treating a patient to bring him round after its use.

⁴ Quia cro- cus et cassia lignea sunt fruenta opii.

36 44. ffor to wake a man þat slepeþ þus: Putte to his nose gray brede y-tosted & wette in strong vinegre; or put vinegre or mustard in his nose; Or wasch his heued in strong vinegre; Or anoynt his templeʒ with þe iuse of

To wake a sleeping man after opium.

^a MS. wynde.

rubarb. And giffe hym som oper sternutoriez, and alsone
 he schal wake. And witte þou pat it is gode for to giffe
 hym afterward castoreum, for it is triacle of iusquiamus¹
 & opii & sich oper, wheþer it be giffen in þe moupe or in 4
 drynk, or it be put in þe nose; for castore chaufep &
 most confortep þe syneweꝝ colded, and solueþ þe paralysye.
 And also giffe hym pat confortep þe brayne, as castore,
 nucis moschat², roses, nenufare, mirtellez & sumac. 8 ¹ theriaca
 hyoseyani.
² Myristica.

Contra spasmus et crampe.

[Sloane MS.
2092, leaf 79]

[* leaf 79,
back]

† leaf 80]

Contra spasmus et crampe radix brionie in aqua cocta et
 postea pistata aut per se, vel in agrippa, vel oleo de semine
 lini, vel in dialthea, vel oleo de lilio aut camomille, collo 12
 emplastrata spasmus curat in quocunque membro cor-
 poris fuit. Quia in collo *est origo omnium morborum. Et
 spasmus est contractio musculorum ad suas origines. Istud
 carmen sequens contra spasmus expertissimum est a multis 16
 inventis eo utentibus, tam in partibus transmarinis quam
 in istis. Nam apud mediolanis, i. e. Melane, in lombardia
 tempore quo dominus Leonellus filius regis Anglie nupsit
 filiam domini Mediolani. Anglici ibidem spasmo vexaban- 20
 tur propter potaciones vinorum fortium et calorum patriæ
 et nimium repletiones. Unde quidam miles, et filius
 domini Reginaldi de Gray de Schirlond juxta Chestre-
 felde, qui fuit apud mediolanum cum domino leonello 24
 et habuit secum carmen sequens, et quemdam armigerum
 a spasmo vexatur ita quod caput suum retro trahebatur
 fere usque ad collum suum, ad modum balistæ,^a qui
 pro dolore et angustia fere expiravit. Quo viso, dictus 28
 Miles accepit carmen, in pergamento scriptum in bursa
 positum, in collo patientis apposuit † dicentibus circum-
 stantibus orationem dominicam ad dominam Maria[m] et,
 ut mihi juravit fideliter, infra quatuor horas aut quinque 32
 sanitati est restitutus. Et postea multos alios a spasmo
 ibidem liberavit, unde magna fama de illo carmine in illa
 civitate exercuit:

Item in civitate Lincoln: . . . Item apud London: . . . 36
 Item apud villam de Huntingdon:

^a "crossbow" in the margin.

. . . . *postea claudatur istâ cedulâ admodum unius
litera ut non leniter possit aperiri, unde solebam scribere
istud literis grecis, ne a laicis perspicieretur.

[* 1st of 80,
back]

- 4 Quum ut istud carmen scriptum, se honeste in dei
omnipotentis nomine gesserit et crediderit, sine dubio a
spasmo non erit aggravatus. Istud habeatur in reveren-
tia propter dominum qui virtutem dedit verbis, petris et
8 herbis, et secrete fingitur ne omnes nostant carmen ne
forte virtutes datas a deo amittat.

A charm against Spasm and Cramp.

- Bryony root boiled in water & afterwards crushed
12 either by itself or in agrippa or in linseed oil or in
dialthea or in oil of lily or camomile cures spasm when
it is plastered upon the neck in whatever part of the
body it may be. Because the source of all diseases is in
16 the neck: And spasm is a contraction of the muscles at
their origin. The following charm against spasm has been
found most sovran by many who have used it both at
home and abroad. For amongst the Mediolani [i.e.] the
20 Milanese, in Lombardy at the time when the Lord Lionel,
son of the king of England, married the daughter of the
lord of Milan, the English there were troubled with
spasm due to their potations of the strong & hot wines of
24 the country & to too many carouses. Whereupon a certain
knight, the son of Lord Reginald de Grey de Schirlond
near Chesterfield, who was at Milan with the Lord
Lionel & had with him the following charm, & saw a
28 certain gentleman so troubled with the spasm that his
head was drawn backward nearly to his neck just like a
crossbow, & he was almost dead from the pain and
starvation. And when the said knight saw this he
32 brought the charm written on parchment & placed it in
a purse & put it upon the neck of the patient whilst those
who stood by said the Lord's prayer and one to our lady
Mary, and, as he swore faithfully to me, within four hours
36 or five he was restored to health. And afterwards he
freed many there from spasm, & the great report of
that charm spread throughout that state. Again in the

Whence
come
spasms.

Results of
the marriage
festivities at
Milan
when Duke
Lionel
wedded.

The charm,
how used.

city of Lincoln . . . again in London . . . again in the
Town of Huntingdon.

The words of
the charm

In nomine patris ✠ et filii ✠ et Spiritus sancti ✠
Amen.

4

☩ Thebal ☩ Enthe ☩ Enthanay ☩ In nomine Patris
☩ et Filii ☩ et Spiritus sancti ☩ Amen. ☩ Ihesu
Nazarenus ☩ Maria ☩ Iohannes ☩ Michael ☩ Gabriel
☩ Raphael ☩ Verbum caro factum est ☩.

8

Why written
with Greek
letters.

Let it be closed afterwards in the manner of a letter
so that it cannot be opened easily, & for this reason
I used to write it in greek letters that it might not be
understanded of the people. And if any one carries that 12
charm written fairly in the name of God almighty, &
believes, without doubt he will not be troubled with
cramp. Let it be held in respect on account of the Lord
who gave virtue to words, to stones & to herbs, & let it 16
be made secretly that every one should not know the
charm lest perchance it should lose the virtues given by
God.

APPENDIX

[MS. Rawlinson, B. 102, leaf 30, back.]

Grant to R. de Rupella of land in the Cantred of Tirmany, Connaught, given to him by the Black Prince.

Sciant presentes et futuri quod ego Iohannes de Arderne dedi concessi et hac presenti carta confirmaui Domino Richardo de Rupella pro homagio et servicio suo totam terram meam cum omnibus pertinentijs suis sine aliquo retenemento quam habui in illo Theodo quod vocatur Crohun in Cantredo de Tirmany in Connatia de dono et feoffamento domini Edwardi illustris Regis Angliæ primogeniti in escambium manerij sui de Willinghale et Plesingho cum pertinentijs suis habendam et tenendam de me et heredibus meis eidem domino Richardo et heredibus suis et eorum assignatis adeo libere et quieto sicut idem dominus Richardus tenet terram suam de Clonedach' quam habet de dono et feoffamento predicti domini Edwardi et sicut plenius et liberius et integrius continetur in Carta quam idem dominus Edwardus de dicta terra mihi confecit reddendo inde per Annum mihi et heredibus meis ipse dominus Ricardus et heredes sui et eorum Assignati vnum denarium ad Pascha et faciendo pro me et heredibus meis predicto domino Edwardo et heredibus suis servicium feodi vnus militis pro omnibus servicijs consuetudinibus sectis exactionibus et omnibus demandis secularibus. Et ego Iohannes et heredes mei warrantizabimus acquietabimus et defendemus eidem domino Richardo et heredibus suis et eorum Assignatis totam predictam terram cum omnibus pertinentiis suis sine aliquo retenemento per predictum servicium sicut predictum est contra omnes homines et feminas in perpetuum. Et vt hec mea donatio firma et stabilis permaneat huic Carte Sigillum meum apposui. Hijs testibus, Dominis Iohanne de Ripar', Roberto de Viforde, Ricardo de Tany, Willelmo de Wokingdon, Rogero de Bello Campo, Richardo de Ispanya, Militibus, Waltero de Essex, Thoma Iocelyn, Iohanne de Rupell', et Alijs.

[This is entered in the Bodleian Catalogue at Oxford under the heading "Arderne Iohannes, chirurgus." Cf. Forewords, p. x.]



NOTES.

1/1. *Ploge* seems to be a variant of the more common form *plage* and is equivalent to 'Plague,' but it is not given in this form in the New English Dictionary.

1/4. An account of John Arderne is given in the Forewords. He calls himself Johannes Arderne Sirurgicus in 1372 and Magister Joh. de Arderne after 1376. I have adopted the simpler form.

1/4. The first pestilence was the Black Death, which entered England at Weymouth about the middle of August 1348, and ravaged the kingdom in 1349. It was pandemic, and yet, in spite of the tremendous mortality which attended its progress, it does not seem to have attracted much attention from the medical men who lived through it. Arderne only uses it in this passage as a means of determining the time when he began to practise in Nottinghamshire, yet he must have seen it in its full fury. Details of the Black Death will be found in Creighton's "History of Epidemics in England," vol. i, and in Father Gasquet's "The Great Pestilence now commonly known as the Black Death." The second pestilence, called the Great Plague, occurred in 1361, and killed amongst others Henry, Earl of Derby and Duke of Lancaster (cf. 1/10). The third pestilence in 1369 killed his daughter Blanche, wife of John of Gaunt.

1/8. *Sir Adam Everyngham*. The Everynghams had long been established at Tuxford. An Adam de Everyngham went bail for several deerstealers, 36 Hen. III (1251), and Thoroton, in the "Antiquities of Nottinghamshire" (ed. 1677, p. 380, col. 2), states that John de Lexington died 41 Hen. III (1256), seized of the manor of Tuxford and hamlet of Warsop, and of the land in Lexington held of Adam de Everyngham. The Records of the Borough of Nottingham (1155-1399, vol. i, p. 389) note on April 27th, 1330, a grant from Richard, son of Richard de Lameleye dwelling in Lampadidnawe in Wales to William de Mekisburg of Nottingham of a messuage in Gedeling and all the land formerly held of Sir Adam de Everyngham in Gedelin, Carleton and Stoke Bardolf. The Sir Adam de Everyngham treated by John Arderne died 8th Feb., 2 Ric. II (1378-9), and he was probably operated upon not later than 1358. This treatise on the fistula was written in 1376 (see Forewords, p. xi), so that this passage must have been a later addition to the original manuscript. The armorial bearings of the Everyngham family are Argent, a fess azure, a label of three points gules. Thoroton (ed. 1797, vol. 3, p. 207) gives a pedigree of the family of Everyngham.

1/10. *Sir Henry, that tyme named Erle of Derby*. He was Henry Plantagenet (1299?-1361), son of Henry, Earl of Lancaster, and his Countess Maud. Sir Henry was cousin to Edward III who created him Earl of Derby in 1337, Earl of Lincoln in 1349, and Duke of Lancaster in 1351, being the second person in England to be made a Duke. Sir Henry was one of the original Knights of the Garter, and was looked upon throughout Europe as the very mirror of chivalry, when chivalry was at its height.

Readers of Froissart will recall many of his exploits often in company with that other great Captain, Sir Walter de Manny. Sir Henry sailed for Antwerp with King Edward III in July 1338, and in 1339, after the great sea fight at Sluys, he was left in prison in Flanders as security for the King's debts. It may have been at this time that Arderne was practising at Antwerp, if there is any truth in the tradition (see Forewords, p. xii). In 1343 Sir Henry, then Earl of Derby, was sent to Avignon to Pope Clement VI and Alfonso XI of Castile. Whilst in Spain he and his fellow ambassador, the Earl of Salisbury, did good service against the Moors at the siege of Algeçiras when cannon are said to have been used for the first time. Arderne treated a Spanish nobleman at Algeçiras (Forewords, p. xi).

1/13. The irregular endings of the technical terms which is noticeable here and in other parts of the MS. (cf. 24/5) is due to the scribe copying them as they stand in the Latin text where the case varies with the construction of the sentence in which it occurs.

1/14. Arderne's knowledge of the Gascony campaign is curiously minute and makes it possible that he had actually taken part in it or that he knew the country intimately. Writing more than thirty years after the event he gives the towns in the order in which they were visited by one of the three divisions into which the Duke of Lancaster, formerly the Earl of Derby, had divided his forces, rather than in the correct geographical order. The army landed at Bordeaux and captured Bergerac on 24th August, 1345. The town was granted to Lancaster as a reward for his services but reverted to the crown upon his death. It came afterwards into the hands of Edward "the Black Prince," and was given by him to John of Gaunt in 1370. The arms of the town "Deux pattes de griffon sur un champ d'or" may still be seen emblazoned in the Great Crowcher Book of the Duchy of Lancaster, says Mr. Armitage-Smith in his "John of Gaunt" (p. 199).

Toulouse. Sir Adam doubtless reached here with the force acting on the Lot and Garonne rivers after the battle of Auberoche on 24th October, 1345, when 300 lances and 600 archers defeated a force estimated at 10,000 strong under the Count of Lille-Jourdain.

Narbonne had some special association for John Arderne, since he named one of his best-beloved ointments Ungt. Noirbon, adding as a pun that though it was black (Noir) it was good (bon).

Poitiers was stormed on 4th October, 1346, with a tremendous slaughter of men, women and children. So much rich booty was taken that raiment was held of no account unless it was cloth of gold or silver, or plumes. The campaign ended here, and the Duke of Lancaster returned to London 13th June, 1347.

1/23. *Mene* is here used in the sense of "an instrument or agency," and is equivalent to "deo favente." It is as favourite a phrase with Arderne as "I dressed him, God cured him," used to be with Ambroise Paré.

1/29. *Balne by Snaith.* Balne is $5\frac{1}{4}$ miles from Snaith, a small town in the West Riding of Yorkshire. There was a priory at Snaith belonging to the Warwick family.

2/1. *John Schefeld of Bristwell a-side Tekyll.* This John was probably a member of the knightly family of Sheffield of Nottingham. The manor of Tickhill was granted to John of Gaunt in 1372 with other rewards for surrendering the Earldom and Honour of Richmond, which was im

mediately bestowed upon John de Montford to secure his allegiance then wavering between England and France.

2/2. *Sir Reginald Grey de Wilton*, also known as Grey de Shirland or De Grey. He was the fourth Lord de Grey and was aged 30 in 1342. He died in 1370, and held the manor of Shirland, co. Derby. His grandfather John, Lord de Grey, was Justice of North Wales and Vice-Justice of Chester 1296-97. Sir Reginald Grey's son, the fifth Lord de Grey, served in Gascony in 1366. The peerage became extinct in 1614 when the fifteenth Lord de Grey died in the Tower after having been found guilty of high treason in connection with the Bye or Priest's Plot. The Calendar of Close Rolls (Ed. III, 1354-1360, No. 1358) gives the names of Sir Reynold de Grey and John Arderne as witnesses to an enrolment of release by Roger de Puttenham, knight of the manor of Wylve, co. Warwick.

2/5. *Sir Henry Blakborne*. A Sir Henry de Blakeburn, son of William, son of Paulinus de Eleston of the County of Lancaster, obtained "a general pardon for his good service in the war of France . . . on condition that he did not withdraw from the King's service so long as he shall stay this time on this side the sea without his special licence." The pardon is granted by K and the testimony of Adam de Swynburn, under-constable of the Army. It is dated "By Calais, September 4th, 1346." There also exists a ratification of the estate of a Henry de Blakeburn as prebendary of Preston, in the church of St. Mary, Salisbury. It bears the date September 22nd, 1351. On May 7th, 1379, "Henry de Blakeburn was presented to the church of Reddeleve-on-Soar by John de Wynewyk, and has since resigned it." ("Cal. of Patent Rolls," Ed. III, viii, 496; ix, 137; and Rich. II (1377-1381), p. 363.)

2/10. The transcriber has left out a line here. The text runs, "Afterward I halid Sir Iohn Masty parson of Stopporte in Chestre-shire."

2/11. Gunnas or Gunnays was a York family in the fourteenth century. Thomas Gunnays was a scrivener in 1363-4; John Gunnays a Tannator in 1389-90, and there was also John, a Marchaunt. ("Register of York Freeman," The Surtees Soc., vol. i, 1896.)

2/13. The scribe has made a mistake in the name. John le Colier was Mayor of Northampton in 1326-7, and again in 1339-40. He seems to have been a most regular attendant at the meetings of the Town Council, because his name appears as a witness to thirty-three documents between the years 1315 and 1340. ("Records of the Borough of Nottingham," vol. i, 1155-1399.) A William Colyar was Mayor of Northampton 1368-9.

2/29. *Towel*. Arderne's translator uses somewhat unusual terms for the parts with which he is dealing. The *towel* is always the Anus. It is, I suppose, a form of "tewel," a pipe or funnel, and the word has survived in the North of England as a "tuyer" in connection with the blast furnaces. *Longanon* or *Lougaon* is the ordinary mediæval word for the rectum or lowest segment of the large intestine. The *Lure* is sometimes the ischio-rectal fossa, and sometimes the anus or rectum. The "Promptorium Parvulorum" gives "Mouth of a botel," "Lura," or Leather bagge, adds the Bibliotheca Eliotæ, ed. 1559. The New English Dictionary, s.v. *Lure*, 2 Her(aldic), says, "A conventional representation of a hawk's 'lure,' consisting of two birds' wings with the points directed downwards and joined above by a ring attached to a cord." Either of these similes suits the anatomy of the ischio-rectal fossa, but it is clearly the simpler one that was in Arderne's mind, as he did not know enough anatomy to visualise the ischio-rectal fossa in accordance with the hawk's lure. Cf. 11/10.

2/40. The opinions of Arderne's immediate contemporaries and predecessors on the subject of Fistula in ano are given in the Forewords (p. xvi).

3/8. The translation quite misses the beauty of this passage, which should read, "It is not opened to them that knock as they pass by, but to those who stand and knock."

3/13. *In diuanudiis*. These words have proved a crux from the earliest times. Some scribes have merely copied the words here printed, others have omitted them entirely. John Arderne clearly wrote a very bad hand, but Miss E. M. Thompson has made the following transcription of Sloane MS. No. 29301 (leaf 22, back, col. 80), which was presumably a fair copy produced under Arderne's immediate supervision—"Nota de honore dei. Ad honorem ergo dei omnipotentis qui aperuit mihi sensum ut thesaurum in agro studenter absconditum quod longo tempore pectore-que anelo diligencius ac pertinacius diu audius insuadaverim invenire prout mea suppetat facultas absque scernatis facunditate posteris, domino mediante istoque libello, explicate duxi exarandus. Non ut meipsum laude dignum ex tanto munere ceteris efferam sed, ut ne dominum irretem et pro dragma quam mihi tradidit affatu urgeor delatoris." The badly written words "diu avidius" in this passage were soon corrupted into "in diuanudiis," the "in" being an interpolation. "In diuanudiis" easily became "De Dinamidiis," the name of a spurious work ascribed to Galen, and thus Arderne acquired an undeserved reputation as a Grecian.

3/23. The transcriber has omitted the line, "pat is leful forsoþ to sey that is knowen & for to witness that is seene."

3/27. This was the Black Prince's campaign in 1355. It lasted eight weeks, and was of a freebooting character.

3/34. Yet John Arderne thought it wise to obtain the Minorite's secret. "Il ne révèle son secret (en 1370) que parce qu'il est vieux et qu'il a tiré des très-beaux bénéfices," says Daremberg (*Hist. des. Sci. méd.* i, 301, note).

3/36. It is unnecessary to show the debt of the medical profession in the middle ages to Galen, who was born at Pergamos about A.D. 131. Arderne probably quotes Galen through a Latin translation of an Arabic version. He knows him as the author of the *Megatechni* or *De methodo medendi*—*θεραπευτικῆς μεθόδου*—and of the *Microtechni*, or simply the *Techni* or *Tegni* which was the *ars medica* or *τέχνη ἰατρικὴ*. The *Pantegni* or *Pantegni* used here by Arderne was not one of Galen's writings. It was written in Arabic by Isaac the Jew (d. 932 A.D.), and was translated into Latin by Constantinus Africanus (fl. 1036 A.D.), who issued it as his own. Cf. 55/3. Prof. Ed. Nicaise ("La Grande Chirurgie de Guy de Chauliac," Paris, 1890, p. 52) says that in 1309 the Faculty of Medicine at Montpellier demanded that each bachelor who wished to become a Master must have studied the following books of Galen, "De complexionibus; de malicia complexionis diverse; De simplici medicina; De crisi et criticis diebus; De Ingenio sanitatis." He had also to explain two books which had been lectured upon and one which had not been commented upon, of the *Techni* and *Prognostics*, or of the *Aphorisms* of Hippocrates, or of his *Regimen*, or the *Isagoge* of Johannitius, the *Febres* of Isaac, or the *Antidotary* of Rhazes. See Dr. Payne on Medical Books in use at Montpellier, Rashdall's "Universities of Europe," Vol. 2, part ii, page 780. The fact that Arderne knew and quotes all these writers lends some support to the theory that he was educated at Montpellier.

4/2. These passages on the Manner or Behaviour of a Leech form the true joy of those who travail amongst the old Masters of Medicine and

surgery. They are full of conceits, and give a picture of contemporary manners and customs which it is impossible to obtain in any other way. The parallel passages from Salicet, Mondeville and Lanfrank are given in the Forewords (xix-xxvi), and show that there was a common source for these paragraphs on medical ethics of which the chief was "De adventu medici" of Archimatheus, a master at Salerno.

4/24. The expression "for why" is employed by the translator as the English equivalent for the Latin word "Nam." It does not imply a question therefore, but is used as we should now say "because."

5/8. The greeting of ladies by thrusting the hands into their bosom had a long vogue in England, and it would be interesting to know whether the fashion of wearing low-necked dresses was a cause or an effect of the custom. By the end of the seventeenth century it was only used by near relatives, and Mr. Samuel Pepys records that he availed himself of the privilege.

6/4. Speaking of the cure of scabies by the inunction of a mercurial ointment (MS. Ashmol. 1434, leaf 131; cf. 79/1), Arderne says, "I have tried it many times and have made a good deal of money from it, and I got twenty shillings for a single application. And take notice that the inunction must be repeated for forty days, or for a month at least. ("Quod centies probavi et exinde multa lucra adquisivi pro certo et haec xxs. pro uno liserio. Et nota quod tale lisorium per xl dies vel mensem ad minus debet portari.")

6/4. The fees charged by Arderne are very large, if it be remembered that money had at least seventeen times and perhaps twenty times its present value. I have given some account of the fees of our ancestors in Janus (May-June 1909, pp. 287-293), and to the facts there contained I may add an observation obtained by Prof. Ed. Nicaise for his edition of Guy de Chauliac's Surgery (*op. cit.* p. lxii). "A lady was attended in 1348 by three doctors, two Jews and a Christian, and she paid a fee of half a florin to each. The livre tournois at this time was equivalent to one florin and 16 sols of pontifical money—the cash then current at Avignon—and corresponded to 27 francs 34 centimes of modern French money. The general practitioner therefore received 8 francs 17 centimes for each visit, which is equivalent to three visits for a guinea."

6/5. The custom of paying for an operation by an annuity as well as by a fee lingered in England until late in the seventeenth century, for Richard Wiseman (1622?-1676), speaking of a patient, says, "This person retired into the country afterwards and returned to London at the end of two years, and acknowledged to me his cure by settling thirty pounds a year upon me during his life and paid me sixty pounds for the two years passed." Readers of French history, too, will recollect that Louis XIV paid Dr. François Felix the sum of one hundred and fifty pounds and settled a farm upon him in 1686 for curing him of a fistula.

7/29. "The Senator Boethius," says Gibbon, "is the last of the Romans whom Cato or Tully could have acknowledged for their countryman." ("Roman Empire," ed. 1862, v, 27.) He was born at Rome about 475 A.D. and was consul in 510. He was a minister of Theodoric, King of the Ostrogoths, who displaced the Emperor Odoacer. Boethius was afterwards imprisoned at Pavia and was put to death in 525 A.D. He was subsequently canonised as St. Severinus. He wrote the "De consolatione Philosophiæ" (Chaucer's translation of which was published in the Early English Text Soc.'s Extra Series, No. V, 1868), as well as some valuable treatises on

Music and Geometry. The "de disciplina scholarium" mentioned in the text is falsely ascribed to Boetius. It is quoted again 23/27.

7/39. Arderne repeatedly draws attention to the effect of the mind on the body, and makes it appear that what we now call neurasthenia was not unknown in his experience. Cf. 6/23, 8/3, 60/16, 64/32.

8/27. The operation of fistula recommended by Arderne is described in the Forewords (p. xvii) to this volume. Arderne purposely gives fancy names to the instruments and to the remedies he uses as part of a fixed design to keep his methods secret. This secrecy was a common feature of the medical profession until quite recently—indeed it still lingers in parts where medical men dispense "our ointment" or "our linctus." Arderne especially feared the competition of other leeches, cf. 15/9 and 30/3, of the Barbers, cf. 71/16, and of the laity, cf. 103/3, for when he used the charm against tic, tetanus and delirium tremens, he not only disguised the words in Greek characters but he made nonsense of them, "ne a laicis perspicitur."

8/29. The *sequare me* was a flexible probe, and was named appropriately enough because it was the guide to be followed.

9/4. The *acus rostrata*, or "snowted needle," was a grooved director along which the scalpel was passed. The snowted or curved end fitted into a hole in the cochlearia or shield which was introduced later in the operation to protect the opposite side of the rectum at the moment the fistula was divided. This snouted needle was made of silver.

9/12. The *tendiculum*, or dilator, made of boxwood, was used chiefly to keep the ligature taut whilst the fistula was being divided. For this purpose it was provided with a hole into which fitted (9/16) the *wrayste* or "vertile," much in the same way that the peg fits into a violin. The ends of the ligature were passed round the wrayste, which was then twisted until the *frænum cæsaris* was tight enough.

9/20. The *frænum Cæsaris*, or ligature, constricted the rectal side of the fistula. It seems to be merely a vestigium of an obsolete operation for the cure of fistula. Albucasis used it as an *écraseur*, and Arderne had sufficient reverence for authority not to discard it. But the operation he describes is one of simple division. The *tendiculum*, the *wrayste* and the *frænum Cæsaris*, therefore, are useless because as soon as the division was complete, they all fell out of the wound. Cf. 24/26. They steadied the parts whilst the incision was made, but they complicated the operation by giving the surgeon two instruments to hold in his left hand (the *acus rostrata* and the *tendiculum*) whilst he held the scalpel in his right hand. The cochlearia must always have been held by the assistant—the fellow of the leech—as Arderne calls him,—the surgeon's mate—as the Elizabethans knew him.

9/24. The *siringa* is probably only a clyster-pipe. Two forms are given, the one with side-openings, as was then used, the other an improved form recommended by Arderne as the result of his own experience (cf. 74/38) in which there is only a single terminal orifice.

11/1. *Aposteme* is an early form of the word which afterwards became *Imposthume*. It means a suppurating inflammation or an abscess.

11/6. Arderne's pathology of fistula is excellent and is clearly the result of observation. He has seen and treated cases of ischio-rectal abscess, and has observed how such abscesses have become chronic and ended in a fistula.

11/18. The axillary glands were the emunctories of the heart: the inguinal glands of the liver: the cervical glands of the brain.

11/19. *Chawellez* is quite an unusual word, and except for the Latin version it would be incomprehensible. The Latin gives the English gloss "fauces." It seems, therefore, to be a form derived from the same source as "Chawylbone" which the *Promptorium Parvulorum* renders *Mandibula*.

11/20. *Gilbertyn* is Gilbert the Englishman, known to all readers of Chaucer because he is named in the Prologue (l. 429) with Bernard and Gatesden. *Gilbertus Anglicus* flourished about 1210, and is said to be the first practical English writer on medicine though Master Richard preceded him. Dr. Payne in his Fitzpatrick lectures in 1904 says that Theodoric took his description of leprosy from Gilbertyn, a description evidently at first hand and in many respects very accurate. Gilbert wrote a compendium or *Laurea* of medicine, printed at Lyons 1510 (cf. 55/10), and a Commentary upon the verses of Gilles de Corbeil "*De Urinis*" (cf. 59/32). A commentary in English upon these same verses and attributed to John Arderne exists in manuscript in the Hunterian Library at Glasgow (No. 328).

11/21. *Ol. roset.* Oil of roses entered largely into the mediæval pharmacopœia as a soothing application. The ceruse here ordered to be mingled with it is carbonate of lead, and the litharge is protoxide of lead. The lotion thus had the soothing and astringent properties which is still attributed to lead lotion or Goulard extract.

11/24. *Wombe.* Arderne speaks consistently of the belly as the womb both in men and women; when he speaks specifically of the womb in women he employs the term *Marice*. Cf. pp. 80/39, 85/4 and 86/26.

11/27. Arderne, like his contemporaries, recognises two forms of Mallow. The *Althæa rosea*—which he calls "tame" mallow (cf. 12/15), because it was grown in the garden, and *Malva silvestris*—the wild mallow.

11/32. *A Nastar of tree.* Arderne fortunately gives the English equivalent for *Nastar* in the manuscript No. 112 (T. 5, 14), fol. 77, contained in the Hunterian Library, Glasgow, and says, "*Nastare species est clysteris sive enematis 'a glister pipe.'*" A *Nastar* of tree, therefore, is a wooden enema nozzle. The wood may be either boxwood, hazel or willow. His description of the bladder and its method of preparation is given later on; cf. 75/1 *et seqq.*

12/1. *After auctores.* The author is probably Serapion the younger who wrote a large work on pharmacology, which was translated from Arabic into Latin under the title "*Liber de medicamentis simplicibus*" or "*De temperamentis simplicium.*" He lived about the end of the eleventh century. For Serapion the elder see 55/29, p. 124.

12/9. *Diaquilon.* Three forms of diachylon plaster were used. One called Rhazes' plaster; a second Mesue's, and the third diachylon commune. Arderne here recommends Mesue's diachylon which contained mucilage of *Althæa* and oil of camomile amongst many other ingredients.

12/15. *M.* The symbol M. is used for *Manipulus* in dispensing drugs—a handful—and the handful was either large or small. The small handful or pinch was denoted by the letter P. for *Pugillus*, and it was usually estimated at about the eighth part of the *Manipulus*.

12/21. *Lana succida* is sufficiently described in the text. It seems to have been a crude method of obtaining what is now called lanolin. An undressed fleece is still used in folk-medicine.

12/21. The persistence of these simple remedies is shown by Miss Edith Durham's interesting account of Higher Albania (Lond. 1909, p. 93). She says, speaking of a comminuted fracture of the leg treated by an old Franciscan at Vukli :—"He then plugged and dressed the wound with a salve of his own making—the ingredients are extract of pine resin, the green bark of elder twigs, white beeswax and olive oil. The pine resin would provide a strong antiseptic. The property of the elder bark I do not know. . . . In gunshot wounds he was very expert. For 'first aid' his prescription was : Take the white of an egg and a lot of salt, pour on to the wound as soon as possible and bandage. This only temporary till the patient could be properly treated with rakia (the local alcoholic drink) and pine salve as above. The wound was to be plugged with sheep's wool, cleaned and soaked in the salve. The dressing to be changed at night and morning and at midday also if the weather be very hot. Should the wound show signs of becoming foul, wash again with rakia as often as necessary. This treatment he had inherited from his grandfather who had it from his. The exact proportions and way of making salve he begged to be excused from telling me as they were a family secret." Every word of this passage would have been approved by Arderne. He would have recognised his Unguentum sambuci (cf. 30/21), the egg meddled (cf. 28/4) with salt would have been nothing new to him, the cleaning of the sheep's wool he might have considered an improvement upon his own *lana succida* (cf. 12/20), as he had an open mind (cf. 35/4), and he would have endorsed thoroughly the old priest's disinclination to give away the secret of a preparation (cf. 15/8).

12/40. *Wormed*, i. e. warmed.

13/20. *Ragadie* was the name given to fissures formed round the anus and vulva. It is used here to denote chronic ulceration. *Frousingez* seems to be a mere repetition of *ragadie*, as it does not occur in the Latin texts.

13/24. An *ulcus undesiccable* is an ulcer which continues to form pus in spite of treatment. Mediæval surgeons were very skilful in frightening themselves with names.

14/4. There were two Geoffrey Scropes living in the latter half of the fourteenth century. (i) Sir Geoffrey Scrope, knighted before Paris, 1360. He was the eldest son of Sir Henry le Scrope of Masham, Co. York, the first Lord Scrope, who was Governor of Guisnes and Calais in 1360. This Geoffrey Scrope was slain at Piskre, Lithuania, in 1362 (cf. 67/34). (ii) Sir Geoffrey le Scrope, son of Stephen, second Lord Scrope, who was living in 1409, but had died *sine prole* before 1418. The brother of this Geoffrey le Scrope was Stephen le Scrope, Archdeacon of Richmond in Yorkshire, who died September 5, 1418.

14/20. It is clear from this and the following lines that Arderne had seen and noted cases of uræmia following upon long-continued urethral fistulæ. The headache, giddiness, dull pain in the loins and vomiting which occur during the later stages of renal disease are all duly noted.

14/38. Bernard de Gordon was teaching at Montpellier in 1285, and was living in 1318. He wrote the "*Lilium medicinæ*," but Arderne here shows that he was absolutely ignorant of Anatomy.

15/8. This is another good instance of the secrecy which characterised the practice of surgery at this period. It was still a trade to be taught, and it was many years before it became a profession to be learned. (Cf. 8/25 and 71/15.)

16/4. It would have been impossible for Arderne to have escaped the belief in Astrology which was a feature of his time. He gives the usual table, common to all his contemporaries, for finding the house of the moon on any given day, and he thought that the planets had an influence upon the twelve parts of the body which correspond to the signs of the zodiac.

16/7. *Pholomeus* was Ptolemy the physician, who lived at Alexandria in the third century B.C., and was perhaps identical with Ptolemy the Geographer. De Mondeville quotes Ptolemy the physician and refers to his "Centilegium"; Guy de Chauliac also speaks of his "Centiloquium." Pictagoras was Pythagoras the Greek philosopher, born about 582 B.C. He was steeped in the mystical lore of Egypt and India; a vegetarian and a social reformer, his name is chiefly associated with the doctrine of Metempsychosis.

Rasis is Abū Becri Mohammed Ibn Zacariyā Ar-Rāzī, commonly known as Rhazes. He was born in 850 A.D. and died about 932. He was the first great Arabian physician, and his text-book called the "Continent" was only displaced by the work of Haly Abbas. Rhazes is still interesting to us because he first distinguished clearly between Smallpox and Measles.

16/8. *Haly* is Haly the Arabian physician who died in 994 A.D. He wrote the "Royal Book" which displaced Rhazes' text-book, and was in turn displaced by the Canon of Avicenna. Cf. 56/7, p. 124.

21/2. Arderne's account of fistulate or festred gout makes it probable that he is describing the condition which is now known as chronic inflammation of the bone due to infective micro-organisms. Sophocles described Philoctetes as suffering from a similar condition. Cf. 46/25.

21/9. *Ypocras*, i. e. Hippocrates, lived during the golden age in Greece (460-377 B.C.), and was contemporary with Socrates. His writings were known through Galen's commentaries upon the Prognostics, Aphorisms, and on Regimen in Acute Diseases, which had been translated into Latin before the fourteenth century.

21/27. The meaning of this passage may be thus rendered, "Take heed lest thou art so blinded by the desire for money as to operate upon a case thou knowest to be incurable."

22/12. *Lusting* is here equivalent to grudging.

22/17. The details of the operation are admirably given, and it is quite possible to follow each step, a very rare thing in the case of mediæval writers on surgery, but Arderne was a master of this part of his subject. Cf. Forewords, p. xvii.

22/22. The *ryg bone* is the vertebral column. Cf. 34/34, 62/8, 70/24.

23/1. Arderne shows his ability by recommending a cutting operation. It proves that he was not afraid of the bleeding which daunted his contemporaries and many of his successors. Cf. 24/32.

23/21. Both John Arderne and Henri de Mondeville were never tired of repeating that surgery was an art to be learnt by practice. It was too much the custom of the time to rely upon authority and to think that everything could be learnt from books.

23/27. *Boece*. Cf. 7/29.

24/5. *Freno cesaris*; 24/9. *frenum cesaris*. Cf. 1/13, p. 108.

24/21. Arderne gives a choice of two cutting instruments, a razor and a lancet. Dr. Stewart Milne ("Surgical Instruments in Greek and Roman Times," Oxford, 1907, p. 31) describes a form of razor in which "a scalpel

blade is mounted on a ring and the fore-finger is passed through the ring." Such a razor would have suited Arderne's purpose admirably, but he used some form of scalpel. "Lanceola," says Dr. Freind ("The History of Physic," part 2, p. 177), "in its proper genuine signification is no older than Julius Capitolinus, how long it has been applied to signify a surgical instrument I cannot tell; however, it may be traced as high at least as the time of William of Bretagne, who lived in 1220 and wrote the history of Philip August, whose chaplain he was." He gives some account of the lanceola, and distinguishes it very plainly from the Phlebotomus, both which instruments we see were made use of in that age. "Lanceola dicitur subtile ferrum acutum, cum quo minutores aliqui pungendo venam aperiunt in minutione. Aliqui cum Phlebotomo venam percutiunt." (Lanceola is a name given to a delicate pointed instrument with which some bleeders open a vein by puncturing it in bleeding. Others breathe a vein with a phlebotome.) (Cf. 61/23.)

24/29. Arderne here shows that he knows the last thing a surgeon learns—the knowledge when to stop in operating.

24/32. Surgeons had no satisfactory instruments for stopping bleeding until pressure forceps were invented by Sir Spencer Wells about 1884. Many devices were tried and had their day, but hæmorrhage remained the bugbear of every operating surgeon, and the fear of its occurrence limited the scope of his work. Arderne here recommends the excellent, simple and cleanly method of sponge pressure to arrest the immediate hæmorrhage, and afterwards uses a styptic powder. Arderne gained a great reputation for his prescriptions (cf. Forewords p. xxxi), and it is evident that he was a good physician as well as a practical surgeon; cf. pp. 97 and 98. The styptics here recommended were all in common use. *Boli* is Bolus armeniacus, a yellow earth containing oxide of iron. *Sanguis draconis* was the resin obtained from the fruit of the *Calamus draco*. *Aloes epaticus*: the mediæval materia medica recognised socotrin aloes and hepatic aloes which was an inferior quality.

25/9. *Walwort* is either the *Sambucus* or the Pellitory. Arderne probably means the Elder, of which it was said "this tree has not one part but is used in Pharmacy." The juice is still used in the form of Elder wine.

26/11. Directions for making sanguis veneris and oil of camomile are given on pp. 89 and 94.

26/13. *A nastar of tree*, a wooden clyster-pipe; cf. 11/32, p. 113.

26/21. The preparation of Pulv. sine pari is given on p. 86.

27/6. The preparation of Salus populi is given on p. 90. It is characteristic of the time that fancy names are purposely given to all these preparations lest their composition should become known to the barbers or to other leeches.

27/25. *Bolnyng* is equivalent to swelling or swollen.

27/28. *Alum zucarin. combust.* is described on p. 81. Three kinds of alum were recognised: alum glass, alum plume, and alum zuccarin. Alum glass was the crude alum crystals; alum plume was the natural aluminium sulphate; alum zuccarin was the re-crystallised form; but alum zuccarin was also used as a synonym for sugar candy. The crude alum was sometimes called Alumen roche from the town of Roche in Syria, and as this was often written Alumen Rō it came to be called Alum of Rome.

27/30. *Sarcocolla* is the resin of the *Penæa sarcocolla* and *mucronata*. It was thought to make the flesh adhere together, hence its name.

27/31. *Psidie* is pomegranate bark.

27/32. *Terra sigillata*, or Lemnos earth, was imported from Egypt in large pastiles stamped with the Sultan's seal, hence its name. It had astringent properties.

27/38. *Ceruse* is carbonate of lead. *Lithargyrum* or *Litharge* is the protoxide of lead which forms as a pellicle on the surface of melted lead; lithargyrate of silver and gold are formed similarly when these metals are melted.

28/10. Arderne clearly indicates the calling of an apothecary as distinct from the barbers, surgeons and physicians of the time. As a surgeon he gathered his own simples and made his own preparations, rather to keep their composition a secret than because he was obliged to do so, for the apothecaries would have made them up for him equally well.

30/21. "*Smalach*," says Dr. R. C. A. Prior ("*On the Popular Names of British Plants*," Lond. 1879, p. 217), "or *Smallage*, is a former name of the celery, meaning the small ache or parsley compared with the great parsley, *olus atrum*. *Ach*, Fr. *ache*, is derived from the Latin *apium* by the change of *pi* to *ch*, as in *sapiam* to *sache*."

Wormode is wormwood, the *Artemisia absinthium*. The word is corrupted from A.S. and O.E. *vermod*. Wormwood was used in the Middle Ages to keep off *mod* or *made*, a maggot; the first syllable, derived from A.S. *werian*, to keep off, has become by similarity of sound *worm*.

30/22. *Molayne* is the *Verbascum Thapsus*, or *Tapsibarbus* *ebulus*, the hig (hag) taper, or Bullock's lungwort.

Walwort is the dwarf elder, the *Sambucus ebulus*, sometimes called *Danesblood* or *Danewort*.

Sparge or *Spurge* is the *Cataputia minor*; *Weybread* is the plantain—*Plantago major*; *Mugwort* is the *Artemisia vulgaris*. It is said to have obtained its popular name from its use against *moughte*, *mough* or *moghe*, a moth or maggot. *Auance* is *Avens* or Herb Benett, i.e. *Benedicta*, the *Geum urbanum*. "Where the root is in the house the devil can do nothing and flies from it; wherefore it is blessed above all herbs," says Platearius, whose book Arderne had read. Cf. 79/10.

30/23. *Petite Consoude* was the *consolida minima* or the daisy—*Bellis perennis*. The name *Consoude* was given to several different plants in the Middle Ages, e.g. the Comfrey, the Bugle and the Wild Larkspur. "And for healing of wounds, so soveraigne it is, that if it bee put into the pot and sodden with pieces of flesh, it will souder and rejoinne them, whereupon the Greekes imposed upon it the name of *Symphytum-Consoud*," says Pliny in Philemon Holland's translation (Bk. 27, ch. vi, p. 275).

Wodbynd is the Woodbine or *Lonicera Periclymenum*.

31/21. *Diaplosmus* is the plaster used as a local application, whilst *tapsimel* is the confection for internal use. *Tapsimel* here mentioned, and for the first time, had an extraordinary popularity and was officinal as late as 1773. Cf. Forewords, p. xxx.

32/7. The deadly nightshade is called in German *Nachtschatten*, and it is possible that Arderne may have learnt the Flemish word for it, if he was at Antwerp, as is reported traditionally. Cf. Forewords, p. xii.

33/13. Arderne gives a formula for his unguentum ruptorium (Sloane MS. 29301, leaf 35, col. 1), which is substantially the same as the one mentioned here. It consists of unslaked lime well mingled with black soap and made into a mass, which was afterwards bound with diachylon upon the part to be destroyed. Jamerius (cf. 55/3, Rubrica xxi) also gives a formula for a ruptory, "De unguento quod ruptorium dicitur. Unguentum forte quod ruptorium dicitur. R. Saponis saracenici pondus x denariorum; calcis vive pondus viii, capitelli fortissimi pondus v denariorum. Confice sic: calx prius cribellata cum sapone diu conficiatur, deinde addatur capitellum, et cum predictis commisceatur." There were two kinds of lime ointment. The older form was made by "taking of lime that hath been washed at least seven times lb.ss. Wax ʒiii; Oil of Roses lb.i. Let them all be briskly worked together in a leaden mortar, after the wax hath been by a slow fire melted in a sufficient quantity of the same oil." (Alleyne, *op. cit.*, p. 330, col. i, No. 11.) The other ointment was the more active. R. Quicklime ʒvj; Auripigment ʒiss.; roots of Florentine Orris ʒi; yellow Sulphur; Nitre ana ʒiss.; a strong lixivium of Bean Stalks lb. ii.; Mix and boil all, in a new pot glazed, to a just thickness, which you may know by anointing a feathered quill therewith, if the feathers easily fall off; then add Oyl of Spike ʒss.; and make an ointment or liniment." (Salmon's "New London Dispensary," 1678, p. 768, col. 2.) Soap was of two kinds: White soft soap known as French soap, and hard grey soap called Saracenic soap. The latter is meant when the prescription demands black soap.

34/4. Arderne anchored his tents in much the same way as we now anchor drainage tubes in deep wounds by putting a thread through one end. He uses the word "ground" systematically for "bottom," so that where we should say the bottom of the wound he says (34/6) "in the grounde of the fistula."

35/15. *Reparaed* means the same as re-dressing a wound, that is to say, changing the dressings.

36/15. Arderne loved to play upon words. Cf. 37/12 and 91/32. He could not resist the pun with "bubo," which is the technical term for an abscess in the axilla or groin, and also means an owl. Guy makes the same joke (ed. Nicaise, p. 166). Buboes were the characteristic mark of the bubonic plague, and he must have seen many examples. In the later epidemics the Searchers recognised the disease by the botch which is a plague token.

37/6 *et seqq.* Arderne gives a most creditable account of cancer of the rectum, and distinguishes it clearly from dysentery.

37/29. Those who know how many cases of cancer of the rectum are still overlooked and are treated as cases of chronic constipation, will trow with Arderne that there are still many "wele unkunying leeches" abroad.

38/11 *et seqq.* The treatment and the picture of the later stages of cancer of the rectum are excellent, and are evidently drawn from repeated personal experience.

38/40. Arderne very properly insists on a digital examination in cases of chronic ulceration of the rectum. Such an examination is still too often omitted. Both time and knowledge are then lost, to the great detriment of the patient.

39/8. *Blo* is throughout the scribe's method of spelling blue; "bloness" (cf. 52/27), therefore, is the same as bluish.

39/27. Arderne again warns against the dishonest habit of operating merely for the sake of the fee when no commensurate advantage is gained by the patient.

39/40. *Aysel* is an early form for eissel—vinegar.

40/1. *Virga pastoris* was used by the old writers on materia medica for several varieties of *Dipsacus*, and more especially for *D. pilosus*, *silvestris* and *fullonum*. It is the Teasel.

40/21. There were several varieties of white ointment. The form attributed to Rhazes contains oil of roses ʒix; Ceruse carefully washed in rose-water and powdered ʒiii; white wax ʒii. Avicenna's ointment contained litharge as an ingredient, with the white of eggs beaten into it.

40/27. *Attrament* is here a synonym for Vitriol (cf. 79/1). "Of atramentez, i. e. of vitriolez." It also means Ink (cf. 67/28).

40/33. *Celidone* is the *Chelidonium majus*, the juice of which was greatly esteemed as a collyrium, "because," says Gerarde (p. 911), "some hold opinion that with this herbe the dams restore sight to their young ones, when their eyes be put out." Dr. Prior (*op. cit.* p. 40) says that this notion, quoted by Gerarde from Dodoens and copied by him from Pliny, who had it from Aristotle, was received and repeated by every botanical writer, and is embodied in the *Regimen Sanitatis Salerni*—

"Cæcatis pullis ac lumine mater hirundo
Plinius ut scribit, quamvis sunt eruta reddit."

which was Englished—

"Young Swallows that are blind, and lacke their sight,
The Damme (by Celendine) doth give them light,
Therefore (by Plinie) wee may boldly say,
Celendine for the sight is good alway."

41/1. *Few savage* is erysipelas. Cf. 91/9, p. 133.

41/8. The second pestilence was the epidemic of 1361. Cf. 1/4.

41/33. *The bloody fik* is explained in the treatise on hæmorrhoids to be a bleeding pile. Cf. 56/21.

42/38. I cannot identify the powder creoferoboron or (43/2) the emplastre sanguibætos, nor does Arderne give the formulæ for their preparation.

43/40. *Unguentum viride*. The green ointment in the later pharmacy (1733) consisted of Verdigris; Ung. Ægyptiacum; Oint. of Elder; Colophony and Oil of Spike. The Ung. Ægyptiacum was ascribed to Mesue, and in its simplest form was compounded with verdigris, honey and the sharpest vinegar.

44/38. Women held a well-recognised position as practitioners of medicine in the Middle Ages, and several of the matronæ or mulieres Salernitanæ attained renown at the School of Salernum. The best known is Trotula de Ruggiero, who wrote "de mulierum passionibus." But Arderne seems to allude here to the "ladies bountiful" of his time, for whom he had no great regard. Guy de Chauliac puts them last of his five sects of medical practitioners. The first contained Roger, Roland and the Four Masters who treated wounds with poultices; the second, like Bruno and Theodoric, used dressings of wine and dried up the wounds; the third included William Salicet and Lanfrank, who occupied, he says, a position intermediate between the other two sects. The fourth class embraced those who had been trained on the battlefield, and for whom

Arderne had a sneaking regard; they treated their wounds with charms, oil and wool, and said that God has given virtue to words, herbs and stones (cf. 104/15); whilst the fifth class consisted "of women and many idiots who refer all their sicknesses to the Saints."

45/1. *Drink of Antioch.* Harl. 2378 MS. [B], p. 25, gives a receipt for "*The Drink of Auntioch.*—Take 1 handful of daysye and 1 handful of bugle and 1 handful of red coole and 1 handful of strebery-wyses [stalks] and 1 handful of fenule and half an handful of hempe and as mych of auence, as myche of tansey, as mych of herbe Robert [cf. 54/17], as mych of mader, as mych of comfiry, iiii branche of orpyne, vi croppes of brere, vi croppes of red netle, and thyse herbes ben sothen in 1 galoun of whyt wyn In-to a potell, and afterward put thereto as mych of hony clarifyed and after the nydlyng set it ouer the fyr and thanne steme it a litil, and this drynk schal ben vsed in this manere: 3if to hym that is wounded or brysed by þe morwen of this drynk iii sponful and vi sponful of water and loke that the seke be wel kept fro gotouse [gouty] metes and drynkys, and from wymmen, and loke also that the maladye be heled with brere-leues or with leues of the rede coole." ("Medical Works of the XIV cent.," by Rev. Prof. G. Henslowe, 1899, p. 77.) There was also an antidote of Antiochus. It was an ancient preparation composed of germander, agaric, colocynth, Arabian stæchas, opoponax, sagapenum, parsley, aristolochia, white pepper, cinnamon, lavender, myrrh and honey. It was used in melancholy, hydrophobia and epilepsy. This was known as Antiochi hiera. There was also a theriacum of Antiochus which was also an antidote to every kind of poison. It contained thyme, opoponax, millet, trefoil, fennel, aniseed, nigella sativa and other herbs.

45/31. A *porret* is a young leek or onion—a scallion—says the New English Dictionary.

46/25. Arderne gives in these passages a tolerably clear account of the condition known to us as tuberculous dactylitis, and to our immediate predecessors as *spina ventosa*. Cf. 21/2.

47/25. Arderne is perfectly honest in his statements, and does not claim this patient as a cure.

47/28. *The burt of the knee* is the bow or bend of the knee.

48/2. The *pede lyon* is the *Leontopetalum*, *Brumaria*, Lion's leaf. It was considered to be good against the bites of serpents; the root applied helps the Sciatica and cleanses old filthy ulcers.

48/18. *A spatule.* The *Spathomele* or *spatula* probe is the commonest of the classical surgical instruments. It consists of a long shaft with an olivary point at one end and a spatula at the other. The olive end was used for stirring medicaments and the spatula for spreading them, when it was employed in pharmacy. But it was so handy that it was often used as a blunt dissector, as Arderne did in this case. It was also used by painters for preparing and mixing their colours. See Dr. Milne, "Surgical Instruments in Greek and Roman Times," p. 58.

48/32. *Ventose.* The cupping instruments were either of horn, copper, or glass, and they were used either with or without scarifications—wet or dry cupping.

48/38. This appears to be Arderne's sole piece of correct anatomical knowledge, except the information he had gained as to the position of the superficial veins of the arms and legs. Cf. 49/12.

49/14. The treatise on *Fistulæ* ends abruptly with the words "fleshe, etc." The manuscript continues on the opposite page in a different hand, and with an account of isolated cases, inflammation in the arm and leg, with Arderne's treatment.

49/38. The first case seems to be one of thrombosis. The *vena epatica* is the *vena hepatica* of the arm and not of the liver. The vein arises on the back of the hand near its ulnar edge, taking origin from the plexus on the back of the hand and fingers. It ascends to the ulnar side of the forearm, where it is called the anterior cubital vein. It was known to mediæval anatomists as the *Salvatella* (cf. 61/22), that on the right side being the *salvatella hepatica*, and the vein on the left arm the *salvatella splenetica*. In like manner the external saphenous vein was known as the *salvatella pedis aut saphena*. William of Salicet (Ed. Pifteau, p. 459) describes them carefully, saying, "*Saluatella, hepatica in manu dextra, et splenetica in manu sinistra, quæ est inter digitum annularem et auricularem. . . . Salutella pedis aut saphena.*"

50/1. *Dove's dung* remained in use until after 1733. Alleyne, in his "New English Dispensatory," p. 146, col. 2, says: "The dung is sometimes ordered in cataplasms to be applied to the soles of the feet in malignant fevers and deliriums with an intent to draw the humours downwards; which may not be ill-guessed."

50/7. Arderne gives an account of his early experience of arsenic as a dressing on page 83.

50/24. *Auripigment* is orpiment, or native yellow arsenic.

52/8. The word *garse*, to scarify, seems to have an interesting history if, as the New English Dictionary suggests, it is derived through the Latin from the Greek *χαράσσειν*, to cut or incise, and has given origin to the English *garsh* or *gash*.

52/14. *Epithimation* was identical with the modern fomentation of wounds and inflamed parts. Guy de Chauliac in his seventh treatise, Doct. i, chap. iv (Ed. Nicaise, p. 605): says, "Embrocations and Epitheims are simple or compound solutions with which the limbs are bathed and fomented. Sponges or linen being wrung out of them are applied to the part, and are frequently changed."

52/15. *Solsequium* is the chicory or endive; marigold being *Calendula officinalis*.

52/26. A *felon* was originally any small abscess or boil, but in later times the term was restricted more especially to a whitlow. The gloss *anthrace* written in a contemporary hand seems to imply that Arderne was using the word in its earlier sense and to signify a carbuncle.

52/28. The *canon* seems to have suffered from an attack of gouty eczema, which ended in thrombosis and the formation of a callous ulcer of the leg.

53/15. A *mormale* was an inflamed sore, especially on the leg. Readers of Chaucer will remember of the Cook in the Prologue, line 386, "But great harm was it as it thought me That on his schynne a mormal hadde he." Arderne adopted the treatment still used for callous ulcers: he applied firm pressure, cleansed it, and afterwards applied a stimulating ointment.

54/17. *Herb Robert* is the *Geranium Robertianum*. It is said to have been called after Robert, Duke of Normandy, to whom the "Regimen Sanitatis Salerni" was inscribed; but it may refer to Knecht Ruprecht, a

German forest spirit. It was thought to be cleansing and binding, stopping blood and helping ulcers.

54/37. The *vena basilica*. Cf. 49/38, p. 121.

55/1. The *sophena vein*. Cf. 49/38, p. 121.

55/3. The introduction to the "Treatise on Piles" is much shortened in this translation. The Latin text runs thus, and I am indebted to Miss E. M. Thompson for the transcription—

"Extractus pro emoroidis secundum Lanfrancum.

"Extracta emoroidarum secundum Lanfrancum bononensem discretissimum magistrum Regis francie qui duos libros chirurgie composuit, viz. minorem qui incipit sic 'Attendens, venerabilis amice Bernarde componere librum,' etc. Majorem vero qui incipit sic. 'Protector rite sperancium dens excelsus et gloriosus cuius nomen sit benedictum in secula,' etc. ¶ 'Omne quod investigari potest vno trium modorum investigari potest aut per ejus nomen,' etc. ¶ Item extracta emoroidarum secundum magistrum Bernardum de Gordon' in suo libro, quem librum composuit dictus Bernardus apud Montem Pessulanum i.[e.] Mont Pelers, anno domini millesimo ccc° iii° et anno lecture sue xx° qui sic incipit 'Interrogatus a quodam Socrates quomodo posset optime dicere Respondit si nichil dixeris nisi quod optime sciueris nichil autem optime scinus nisi quod a nobis frequenter dictum est et quod ab omnibus receptum est.' ¶ Item extracta a passionario Magistri Bartholomei qui sic incipit: 'Assiduis petitionibus mi karissime compendiose morborum signa causas et curas inscriptis redigere cogitis,' etc. ¶ Item extracta a micrologio Magistri Ricardi excellentis industrie et a libro Magistri Rolandi et a libro Magistri Gwidonis de gracia pauperum et a practica Rogeri Baron. Et a practica Rogerini et a practica Magistri Johannitii Jamarci et Gilbertini ac aliorum plurium exportorum quorum doctrinam inspexi et practizando que expciora reperi in hoc libello domino mediante innotescunt. ¶ Ricardus qui incipit si quid agam preter solitum veniam date cun[c]ti. ¶ Rolandus Rogerus Braun Rogerinus, Johannitius, Jamarcus, Gwidoñ, Gilbertinus."

Arderne shows here the extent of his reading in connection with hæmorrhoids in the same manner as he does in his commentary on Giles of Corbeuil's treatise de Urinis, where he also quotes his authorities. The first thing perhaps that strikes us is the number of books to which he had access. Books during his lifetime were a luxury of the rich, and those who know the early history of the University of Oxford will remember the gratitude with which the gifts of books from Duke Humphry and the Duke of Bedford were received from 1439 onwards, as "life-giving showers wherewith the vineyard was rendered fruitful, and from which an abundant supply of oil from the olive trees of the University might be expected." Arderne may, of course, have spent his fees in buying MSS. just as some of us do at the present day, but it is probable that he had access to the Libraries of his patrons like John of Gaunt, who were men of letters as well as of affairs, and he was thus able to quote verbatim et literatim, as in the present instance.

Lanfrank of Milan, as has been said (cf. Forewords, p. xxv), was a pupil of William de Salicet. He was one of the great teachers of Surgery at Paris, and died in 1306. The "*Chirurgia magna*" was issued in 1295-6 as an enlarged edition of the "*Chirurgia parva*" published in 1270. He taught that Anatomy was the foundation of Surgery.

Bernard of Gordon was Professor at Montpellier, where he began to teach in 1285, and published his "*Lilium medicinæ*" in 1305. The words

quoted by Arderne are printed in the 1542 edition of the "Lilium" as the first words of the Preface. Arderne gives the date as 1303. The Lyons and Paris editions both give it 1305.

Master Bartholomew of Salernum was a pupil of Constantinus Africanus late in the eleventh century. Arderne is mistaken in ascribing the "Passionarius" to him. The book, which is often called the "Passionarius Galeni," was really written by Gariopontus, a teacher at Salernum early in the eleventh century. The edition printed at Basel in 1531 gives the authorship correctly, but the Lyons edition in 1526 calls it Galen's.

Master Richard seems to be Richard the Englishman already mentioned. Cf. 11/20, p. 113. He was also called Ricardus senior, and was a Master at Salerno at the end of the twelfth century. He also lived in France and in England. His book, "Micrologus," is a collection of short treatises written at different times: (1) Practica, (2) De Urinis, (3) Anatomia, (4) Repressiva, (5) Prognostica. Taken alone Micrologus would probably refer to the "Practica." None of Richard's works have been printed.

Master Roland was from Parma, and he edited in 1264 the "Practica Chirurgiæ," which was written by Master Roger in 1180. Roger's book was sometimes called "Rogerina," or "Rogerina major, medius et minor." It was often attributed to Roger Bacon. This was the text-book upon which the Four Masters wrote their celebrated Commentary. "Roger and Roland," says Sir Clifford Allbutt ("The Historical Relations of Medicine and Surgery," Lond. 1905, p. 27), "stand like Twin Brethren in the dawn of modern medicine bearing the very names of romance. Roger's book was no mere cooking of Albucasis. Before Theodoric, Roger refractured badly united bones. For hæmorrhage he used styptics, the suture or the ligature; the ligature he learned no doubt from Paul."

Master Guido is Guy de Chauliac, the contemporary of Arderne, for he flourished in the second half of the fourteenth century. Guy took orders and was physician to Pope Clement VI at Avignon; Arderne with a bias towards religion remained a layman. Both were Master surgeons. Guido held with Lanfrank that Anatomy was the basis of Surgery; Arderne drifted towards drugs, words and charms, and knew no anatomy.

Roger de Barone or de Varone is credited with a treatise "Summa Rogerii," or "Practica parva." The date is disputed, but it was probably written at Montpellier late in the thirteenth century.

Johannice is Johannitus Honein Ben Ishak (809-873), the son of a Christian Apothecary, and one of the great translators of medical works from Greek into Arabic. His introduction to Galen's "Microtechni" was issued in Latin under the title "Isagoge Johannitii."

Jamarcus, in all probability, is Johannes Jamerius, a surgeon of the school of Salernum. Guy de Chauliac quotes him no less than forty times, and says in one passage: "Jamerius followed, who made a sort of rough surgery in which there were many pointless things, but he was chiefly a disciple of Roland" ("Puis est trouvé Jamier qui a fait quelque Chirurgie brutale, en laquelle il a meslé plusieurs fadeizes, toutefois en beaucoup de choses il a suivy Rogier," Cap. i, p. 14, Ed. Nicaise). Dr. Pansier (Janus, 1903) gives an account of the manuscripts of his works at Oxford and Paris, and Prof. Pagel of Berlin has published a manuscript of his surgery (Berlin, 1909), under the title "Chirurgia Jamati."

Master Gilbertyne is Gilbert the Englishman. Cf. 11/20, p. 113.

55/17. *Anence* is clearly a variant of *Anent*, *i. e.* "according to."

55/24. This passage shows how little the people have learned about medical terms since John Arderne wrote this treatise. "Piles" is still a generic name for all diseases of the rectum in the out-patient room of a

hospital, and no one who has had much experience takes a diagnosis of piles as correct until he has verified it by examination.

55/29. John Damascene is the name under which the fourteenth-century writers on surgery concealed the identity of the elder Serapion, who lived in the ninth century. Some of his works were published under the name of Janus Damascenus. The Pandects in seven books were translated into Latin under the name of the Breviarium. Cf. 12/1, p. 113.

56/7. Avicenna, the Prince of Science, was born near Bokhara in 980 A.D. and early showed his precocity, for he knew the Koran and several books of philosophy by heart when he was ten years old. His genius turned first to law, but at the age of 16 he had made such progress in medicine as to warrant his appointment as personal physician to the Sultan Ben Mansur. "Wein, Weib und Gesang" killed him at the age of 57, in June 1037, but not before he had written his "Canon," which was translated into Latin in the twelfth century and remained a text-book until the middle of the seventeenth century.

57/30. *Morphew* was a general name given to skin eruptions which changed their colour. The white morphew appears to have been an early stage of leprosy in some cases; vitiligo in others. Black morphew was a general term which included many different diseases of the skin.

59/32. Ægidius Corboliensis, or Gilles de Corbeil, was descended from the Counts of Corbeil, and devoted himself to the study of medicine at Salerno. He is said to have taught medicine at that school, and afterwards from the end of the twelfth to the beginning of the thirteenth century to have lived at Paris as Major-domo and Physician to Philip Augustus (1180-1223). His two works, "De Urinis, de Pulsibus, de Virtutibus et laudibus compositorum medicamentorum" and "De Signis et symptomatibus ægritudinum" are in metre and expressed in classical Latin far superior to that of contemporary medical authors. Arderne wrote a commentary in English upon the "Tractatus de urinis," and a copy of it exists in the Hunterian Library at Glasgow. It is described in the Catalogue (p. 264) as:—328. Ægidii Corboliensis, Tractatus Metricus de Urinis. Master John Arderne, Commentary in English on the above Treatise "De Urinis." (Press Mark U. 7. 22; Q. 7. 16; Q. 7. 130.) Description. Vellum $7\frac{1}{2} \times 5\frac{1}{4}$ ff. 68, originally ff. 69 (or ff. 70), well written in a plain hand in single cols. of about 29 lines, each $5\frac{1}{2} - 5\frac{1}{4} \times 3\frac{1}{2}$, margined with brown crayon, not ruled, signatures, traces only left, practically all gnawed off (by beetles) where not cropped, catchwords, foliation modern (in pencil), rubrics, rubricated initials and ¶ ¶, running titles, initials touched with vermilion, marginalia much cropped, writing retouched in places, fol. sec. blank. Early Cent. xv. Binding, thin beech boards, covered quarter calf, coarse dark blue paper sides. Early Cent. xviii.

Collation. Two paper fly-leaves (i²) both attached || 1⁸—3⁸, 4⁷ (8), 5⁸—7⁸, 8⁷ (8), 9 (6). Two fly-leaves (ii²), ii, 2. attached; 4, 6 is cut out (probably to remove a miswritten leaf as the text is continuous); 8, 3 is a half sheet (probably so originally).

Contents:—i. Ægidius (Gilles) of Corbeil's Treatise (in Latin verse) on Urines, with Master John Arderne's Commentary.

Begins (l. i (f. i) r^o. lines 1-8); E (rubricated initial with gestures) go Magister Johannes Arderonni hanc (struck out) hoc (above) opusculum composui / de Judicijs / Vrinarum per colores et contenta secundum Indicium / Egidij. et ypocratis. Walterij. Gilis. Gilberti, Gordoni. Johannis de / Sancto Amando. ysaac. Anicenne. theophili, Galyeni. Galterij / et tholomej. in medicinam et medicum domini regis illustrissimi / principis henrici

quarti cuius anime propicietur deus. Amen. / de. nigra. vrina. capitulum primum.

Ends (6, 5 (f. 44) v°. line 26); ¶ vryn black and watery in a fat manne mortem significat.

60/6. *Noli-me-tangere*. Guy de Chauliac (iv^{me} traité Doct. i, ch. vi, p. 318, Ed. Nicaise), speaking of chancre ulceré, says that Guillaume de Salicet called it "*Noli-me-tangere* because the more it was meddled with the worse it became (Finalement, Guillaume de Salicet juge, que chancre est maladie despiteuse et fascheuse, d'autant que plus on la manie, plus il est indigné. Parquoy il conseille que ne soit touché, sinon légèrement, et a cette cause est appellé *Noli-me-tangere*)." I cannot find the passage in Pisteau's edition of Salicet's Surgery.

60/24. *Millefoile* is the yarrow—*Achillæa Millefolium*—though Apuleius, according to Dr. Prior, seems to have meant the horse-tail, *Equisetum*.

60/27. *Bursa pastoris* is the Shepherd's purse, *Capsella bursa*, which was long considered an excellent styptic.

Parvencis is the Periwinkle, the *Vinca major* and *minor*. It seems to have derived its name from the Latin *Perivincula* because it was used for chaplets.

61/5 and 12. So long as the blood was looked upon as stationary it was a common belief that the vein from which the blood was taken altered the result. Arderne teaches here that letting blood from the external saphenous vein stopped bleeding from a pile, whilst bleeding from the internal saphenous vein increased the hæmorrhage.

61/22. The *vena salvatella* (cf. 49/38, p. 121) ran along the back of the hand between the third and fourth metacarpal bones. Patients were bled from it when they were chronic invalids owing to "congestion of the liver or spleen," says Prof. Nicaise.

61/23. There is here a clear distinction made between the clumsy phlebotome with its halbert shape and the more delicate and easily manipulated lancet (cf. 24/21).

62/6. It is clear from this passage that Arderne was as unwilling to demean himself by breathing a vein as we should now be to crop a poll. Both were the duties of the barber, who was clearly in an inferior position.

62/14. This mutilated passage runs in another English translation (Sloane MS. No. 76), "Alsoe Gordon saythe that in ouer mich or greate fluxe in reasonable aged persones nothings awayleth moare then pouringe, for the grosse and slymye matter being poured awaye the medicyns restrictyue shull worke the better. Mirobalans will worke excellently in that case for they poure before and stoppe after them, that is, it loseneth by reason of his swiftness in digestion and bringeth forth all grosse humour with yt. yt must be warely prepared, whose preparation is pis. It must be dissolved with warme mylke and whaye and not boyled or sodden with anythinge, for by boylinge the gummy substance vadeth awaye in the smooke and so the strength thereof ys weakened."

62/32. The meaning of this passage seems obscure at first, but Arderne says that *myrobalani* in their different forms were good against the different humours recognised by the ancient physicians—Sanguis, choler, melancholia and phlegma. "*Myrobalani* are the fruit of several species of *Terminalia* and of the *Phyllanthus emblica*," says "Mayne's Expository Lexicon" (Sydenham Soc. edition). They contain a large quantity of tannin and in

the *M. chebulæ* some gallic acid. They were much employed by the Arabian physicians in many diseases; some lauding them as emetics and cathartics which purged away all evil humours; and others as useful in the treatment of diarrhoea and dysentery, acting first as a laxative and then as an astringent—the view taken by Arderne, cf. 62/14. They were formerly much employed in European medicine, but are not now used. The dose was 2 to 8 drachms. *Myrobalani citrina* is the fruit of a variety of *Terminalia chebulæ*; they were sometimes called White Galls. *Kebuliz* is the fruit of the *terminalia chebula* which resembles *M. bellericæ* in figure and ridges, but is larger and darker with a thicker pulp.

Indi, or *Myrobalani indicæ*, are probably the unripe fruit of *Terminalia chebula* and *T. bellerica*. These black myrobalans are oblong shaped and have no stone.

The *belleric* myrobalans are the fruit of *Terminalia bellerica*. They are yellowish-grey in colour and roundish or oblong in shape. The *Emblizi* are the produce of the *Emblica officinalis* or the *Phyllanthus emblica*, a plant inhabiting the East Indies and frequently cultivated. The dried fruits are used as a purge and also as a tanning agent.

63/22. *Storax calamita* is the dry resin of the Storax tree.

63/25. *Porcelane* or *Porcelayne* is the older name of *Portulaca communis*, purslane. It was recommended at first as a great assuager of choleric heat; afterwards as a cure for scurvy and all skin eruptions; and lastly as an ingredient in salads.

63/29. The Latin text gives *lapis hæmatites* for *lapis omoptoes*.

Hæmatites. The bloodstone is found in iron mines in Germany and Bohemia of a black, yellowish, or iron colour. The best is brittle, very black and even, free from filth, and of a Cinnabar-like colour. It is to be reduced into a most subtile powder by levigation with plantain water. It is good against the gout, fluxes of the Womb and Belly, spitting blood and bleeding at the nose; mixed with woman's milk it helps clear eyes and suffusions.

Ypoquistid is *Hypocistis*, the juice of the root of the shrub *Cistis* or Holly Rose dried in the sun. It was regarded as an astringent, and *Acacia* was used as a substitute for it. *Sumak* is the *rhus obsoniorum* of which the fruits were looked upon as cooling and astringent.

Quinque-Nervia is the *Plantago lanceolata* or Ribwort, of which the distilled water "helps spitting and pissing blood, and the Ptrysick, stops the Courses, eases the Cholick and heals a Dysenteria, cools inflammations, dissolves nodes and mundifies Fistulas. The Essence is better," says Salmon in 1678.

64/1. This passage is given in greater detail in the later English translation (Sloane MS. 76), where it runs: "Of the Emmorroydes and Menstrualles. The Emorroydes or menstrualles flowinge strongly, or the patient sore afflicted with the force of blood, ye must consider of the suerest waye and that which returns blood fastest. First, if the patient be not very weake, let him bleed somethinge of both Basillic vaynes of the arme and set cuppinge glasses under woman's breistes and so doinge and by bindinge the armes paynedly will provoke the humours to returne, and after that use local remedies."

64/6. *Muscilage dragaunte*. This should certainly be *Muscilage Dragagant*. Arderne is careful to explain the difference between *Dragaunte* and *Dragagant*. 79/3-4. *Dragant* is a crude sulphate, acting as an astringent, whilst *dragagant* is *tragacanth*.

64/11. *Red coral* was long used as an astringent in diarrhoea and in the form of a compound syrup, and it was employed as a teething powder for children. It is still used as a charm against the evil eye in London, for most babies' rattles mounted in silver are tipped with a piece of red coral.

64/13. *Canell*. Arderne's translator uses canell throughout as the equivalent of *Cinnamomum*.

64/18. *Coprose* is Green Vitriol. Salmon says in 1678: "This owes its colour to Iron; in London it is well known that most of the old iron which is gathered by many poor people is sold to the Copperas houses at Rotherhith and Deptford, which they boil up with a dissolution of the Pyrites, which is a stone found on the shore of the Isle of Shepey and other such like places, and let the liquor run out into convenient vessels or Cisterns in which it shoots into those forms we meet with amongst druggists. It is chiefly used as an Astringent."

64/25. *Kynnyng* is clearly a variant of the more common form *chine*, to burst open or split. It is still in familiar use, as in the *Chines* of the Isle of Wight.

64/32. Arderne shows both in this passage and in previous ones (cf. 7/39, p. 112) that *neurasthenia* was not unknown in his practice.

64/36. *Cluffyng*. This is an early instance of the confusion between *Cliff* and *clift*, the original form of *Cleft*.

65/27. *Psidie* was pomegranate rind: *Balaustia* being the flowers of the wild pomegranate—*Punica sylvestris*.

Mummè was divided into five forms. (1) A factitious made of bitumen and Pitch-Pissasphaltum; (2) Flesh of the carcase dried in the Sun, in the country of the Hammonians between Cyrene and Alexandria, being Passengers buried in the Quick-sands; (3) Ægyptian, a liquor sweating from carcases embalmed with Pissasphaltum; (4) Arabian, a liquor which sweats from carcases embalmed with Myrrh, Aloes, and Balsam; (5) Artificial, which is Modern. Of all which the two last are the best, but the Arabian is scarcely to be got; the second and third sorts are sold for it. The artificial or modern mummy is made thus: "Take the carcase of a young man (some say red hair'd) not dying of a disease, but killed; let it lie 24 hours in clear water in the Air; cut the flesh in pieces, to which add powder of myrrh and a little Aloes; imbibe it 24 hours in the spirit of wine and Turpentine, take it out, hang it up twelve hours; imbibe it again 24 hours in fresh spirit, then hang up the pieces in dry air and a shadowy place, so will they dry and not stink." (Salmon, "The New London Dispensatory," 1678, p. 194.) There was a tincture, an essence, an elixir and a balsam of this precious medicine. It dissolved congealed and coagulated blood, provoked the terms, expelled the wind out of both the bowels and the Veins, helped Coughs and was a great Vulnerary. It was also said to purge. The dose was a drachm.

Olibanum is frankincense, the resin obtained from *Boswellia Carteri*. It was employed as a stimulating expectorant, as an emmenagogue, as an ointment in skin diseases and some diseases of the eyes, and as an ingredient of stimulating plasters.

66/3. *Red Jasper* was considered to be of the nature of the blood stone, for it not only stops bleedings at the nose and other fluxes of blood but also the flux of the terms.

Saphir. "The Saphire is either Oriental or Occidental, and of each

there are Male and Female. It is a glorious, clear, transparent, blew, or sky-coloured stone, these are the Males. The females are white and unripe, so they want colour. The stone laid whole to the forehead stays the bleeding at the nose. You may dissolve it in juice of Lemons or Spirit of Vinegar and so use it; drunk in wine it helps against the stinging of scorpions. You may also beat it into a powder and levigate it with rosewater."

"The Ruby or Carbuncle is either white or red; being drunk, it restrains Lust and makes a man lively and cheerful."

66/4. The dung of swine helps the bitings and stinging of serpents, Scorpions, and Mad-dogs. It softens, discusses, and cures hard tumours, Scrophulas, Corns, Warts, Bleeding at the nose, Itch, Small-pox, Scabs, Fractures, Luxations, Wounds, Burns, Scalds, stops Bleeding, etc.

66/7. The belief in the juice of nettle as a blood purifier still lingers among us. As a child I had repeated attacks of urticaria; on several occasions I was ordered a tumblerful of the infusion of nettles to be taken hot and in the morning, fasting, but so far as I remember without effect either in shortening the intervals between the attacks or curing their painfulness.

66/19. *A streit wound*: cf. "streit is the gate and narrow is the way which leadeth unto life" (Matt. vii. 14).

66/25. Arderne here recommends the use of acupressure as a means of arresting hæmorrhage.

67/8. *Comyn*. Dr. Prior derives this word from the Arabic *al gamoun*. It is the *Cuminum cyminum*. Its seeds have long been in general use as a stomachic.

67/13. *Orpine* is the *Sedum Telephium*, a well-known inmate of the cottage garden, being esteemed as a vulnerary. The Latin text gives *Succus ebulæ*, juice of the Danewort or Dwarf elder.

67/28. The Lombards as an enterprising trading community in London are mentioned again in the Treatise on Clysters; cf. 76/32.

67/28. Two kinds of ink seem to have been used by the surgeons in the fourteenth century, *Attramentum* and *Encaustum*. The *Attramentum* seems to have been a sulphate containing powdered galls, whilst the *encaustum*—literally, purple ink reserved for the royal use—was made with *Chalcantum*, a generic name for the sulphates of copper, iron and zinc. *Salicet* (Ed. Pifteau, p. 207) used the purple ink to stain the bone for the purpose of discovering a line or fracture of the skull. *Henri de Mondeville* (Ed. Nicaise, p. 506) marked out his flaps with it before amputating. *Guy de Chauliac* (Ed. Nicaise, p. 343) employs *attramentum* (cf. 40/27, p. 119), as a local astringent in piles, and (p. 521) uses the purple ink for surface marking.

67/31. *Bdellium* is a gum resin somewhat resembling very impure myrrh. It is the product of various species of *Balsamodendron*.

67/32. *Anteros* was *anthera*, *semen rosarum*. Rose threads, viz. the yellow threads in the middle of the flowers. They were used with dentrifrices and to dry up defluxions.

67/34. This Demetrius may have been Demetrius II, King of Georgia, son of David III, who came to the throne in 1126 and died 1158. He was constantly at war with the Mussulmen. It may have been his son Demetrius III who died 1289. Arderne perhaps heard the story from those who had been to Lithuania with Sir Geoffrey Scrope. Cf. 14/4, p. 114.

67/39 and 68/1. The Cuckoo's Bread is the *Oxalis Acetosella*. It is called also Cuckoo's Meat or Gowk's Meat and Wood Sorrel. It was called Hallelujah because it blossomed between Easter and Whitsuntide, the season at which the 113th to the 117th Psalms were sung. Arderne's translator calls it Alleluia. Cf. 68/1.

68/14. *Galang* is the name given to two kinds of roots obtained from a species of *Alpinia*, the greater and smaller galanga. The word itself is said to be a corruption of the Chinese liang-kiang, mild ginger.

69/1. Arderne gives the reason for using *Crocus* or Saffron with opium (cf. 101/35), because it acted as a bridle to that drug.

69/14. This appears to be the original prescription for the Valence which handed Arderne's name down to posterity until after the publication of the "*Pharmacopœia Londinensis*." (Cf. Forewords, pp. xxx-xxxi.) My copy, said to be the editio quarta, with the frontispiece dated 1632, says (p. 155), "*Valentia Scabiosæ Iohannis Ardernii, ex Oppido (vulgo) Newark in Comitatu Nottingham; Chirurgi exercitissimi; qui floruit anno 1370; tempore Edouardi tertii Regis Angliæ, ipsissimis verbis ex antiquo manuscripto excerpta. . . Tapsivalencia ejusdem authoris. . . Tapsimel ejusdem. . . Hæc ad verbum ex veteri Manuscripto et stylo suo.*"

69/29. *Populeon* was an ointment made from the buds of the white poplar or Aspen tree. Cf. 77/3.

70/19. *Furfur* is Bran. It entered very largely into the materia medica of the older leeches.

71/21. *A welked grape*; cf. Chaucer, Pardoner's Tale, l. 270, "For which ful pale and welked is my face," in the sense of wrinkled or shrivelled.

71/26. This short treatise on Tenesmus is excellent from a professional point of view, and it does not appear that the use of the term has materially altered in the course of the centuries which have elapsed since Arderne wrote it.

71-74. These are the passages which show Arderne to be a first-rate observer independent of book work. The prognosis holds good to this day. If the enema is returned at once either the bowel is paralysed because the patient is moribund from some obstruction which may be situated high up, or there may be an obstruction near the anus without paralysis, or the bowel is blocked by the impaction of *fæces* consequent upon obstinate constipation. In the last case the patient may recover, and Arderne says therefore that his rule is not without exceptions.

72/9. *Diagredium* is made from scammony by putting the powder into a hollow quince, covering it with a paste and baking it in an oven or under ashes.

72/12. The iliac passion was a general name for intestinal obstruction at a time when morbid anatomy was unknown. It included a variety of conditions from simple colic to suppurative peritonitis in all its forms. The scene closed with *fæcal* vomiting, as no attempt was ever made to treat it by surgical means.

72/20. *Scariola* is the endive, *Cichorium Endivia*.

72/23. *The dusty meel of the milne* is only the finest flour used as a vehicle to make the grease and honey into a mass.

72/27. Cabbage, *Brassica sativa* or *Caulis*, was much used by the school of Salernum, and Arderne mentions it previously. Cf. 70/19 and 72/27.

72/28. *Fenigreke* is the *fænum græcum*, whose seeds were used in emollient clysters, for they are mucilaginous.

73/6. *Mellilote* is here explained by Arderne as the tops of colewort, but the term is usually applied to *M. officinalis*, the dried flowers of which were used for making poultices. Two varieties were recognised, the white and the yellow.

73/30. The translator has omitted the passage about the ostrich feather and the Prince of Wales which is given in Forewords, p. xxvii. It should come after the word *lure*.

73/32. *Cimbalarie* is the Pennywort—*Linaria Cymbalaria*—so called from its round leaves. It was good "against all inflammations and hot tumours, St. Antonie's fire and Kibed heels."

74/2. *Triasantalorum*. There were three kinds of Sandal in use, album, rufum, and citrinum. *Triasantalorum* therefore is a confection of the three Sandals just as *Diatritonpipereon* is a confection of the three peppers.

74/26. *Salicet* (Ed. Pifteau) gives two formulas (pp. 171 and 504) for making an unguentum apostolorum. The ointment contained white wax : pine resin : aristolochia : incense : mastic : opoponax : myrrh : galbanum, litharge, etc. Guy de Chauliac (Ed. Nicaise, p. 617) gives a similar formula, and adds that Mesue named it *Ceraseos*, but Master Anserin de la Porte and Master Pierre de l'Argentiere of Montpellier call it *Gratia Dei*, because it cures bad ulcers so wonderfully. Henri de Mondeville (Ed. Nicaise, p. 800) calls it the green ointment of the Twelve Apostles on account of its twelve chief ingredients, and states that some writers call it *Unguentum Apostolicon*, others *Unguentum Veneris*, or simply the Plaister.

74/30. *Pellitory of the wall* is the *Parietaria officinalis*. It grows on old walls and was thought to draw lime from the mortar.

74/31. Allusion to this interpolation in the text is made in Forewords (p. xii). It shows that the translation here printed cannot be earlier than 1413, the year of Henry IV's death.

74/33. The short treatise on *Enemata* is written to show Arderne's improvements in apparatus as well as in methods. He is, as usual, ahead of his contemporaries in simplifying both.

75/23. *Rerepigre*. This word seems to be a mistake of the copyist for *Hiera pigre*, *Yera pigra*, or *iera pigra*. The sacred bitter, an aloetic purgative which has long been popular. Dr. Payne says it is still sold in the shops of herbalists under the debased name of "*Hackry-Packry*." The usual formula was that given by Galen.

76/19. *Mercurialis*. The English mercury—*chenopodium* is sometimes called Good Henry—the all-good, to distinguish it from a poisonous form. The Grimms in their "*Wörterbuch*" explain this name as having reference to elves and kobolds, which were called "*Heinz*" or "*Heinrich*," and as indicating supernatural powers in the plant (Dr. Prior, p. 94). It was thought to be laxative, and was long given by nurses to children with their food.

76/32. Lombards. Cf. 67/28, p. 128.

76/36. This passage may mean either that the patients came to Arderne, or that they were relieved before he got home again.

77/3. *Popilion*. Cf. 69/29, p. 129.

77/12. This is an early use of the treatment of chronic constipation by abdominal massage, which has lately become fashionable again.

78/25. Arderne is here advocating rectal feeding which is now commonly used and with excellent results.

79/1. This last treatise is only a fragment in the present translation. A much fuller text is found in the Bodleian Library, where it exists in three parts. The first MS., Ashmole 1434, leaf 117, begins "Attramentorum, i. e. vitriolorum," and ends "facit calcantum." This corresponds, therefore, with p. 79, line 1 to page 81, line 23. The second part is in MS. Digby 161, leaf 16. It begins, "Alumen zucarinum vulgariter alumglas," and ends leaf 23, back, "nobillissimum est ad regem." The translation only contains a small part of this as it ends at page 85, line 22. The third part is in Ashmole MS. 1434, leaf 128, back, to leaf 131. It gives a good account of Arderne's treatment of Scabies by which he made a great deal of money (cf. 6/4, p. 111).

79/1. This passage explains itself. *Dragagant* is *Tragacanth*, a gummy exudation obtained from incisions made in the stem of *Astragalus gummifer*. It is a demulcent and is still used in medicine as a vehicle to suspend heavy and insoluble powders like the subnitrate of bismuth.

79/4. *Dragant* is a modification of *Chalcanthum* from *chalcis* or *vitriol romanum*. Cf. 64/6. *Calcothar* is the red oxide of iron obtained by calcining sulphate of iron or green coperose.

79/10. Platearius was the name of a distinguished medical family living in the twelfth century. John, the elder, wrote "*Practica brevis*" and "*Regulæ urinarum*." John, the son, wrote "*Tractatus de ægritudine curatione*" and "*De conferentibus et nocentibus corporis humani*." Matthew, brother of John the son, made a name for himself, but his writings are unknown. Matthew (floruit 1130-1150), grandson of John the elder and son of John the younger, wrote "*De simplici medicina liber*," quoted from the first words of the text as "*circa instans*." John, the third son of Matthew the elder and therefore cousin of Matthew "*circa instans*," was also known to fame.

79/18. *Venemyl wound*. The expression is still in common use, only we say a "poisoned wound," and bacteriology has given us an explanation of its occurrence.

79/27. *Fraudulent ulcers*. Guy de Chauliac divides ulcers into corrosive, sordid, cavernous, fistulous and chancre. The fraudulent ulcer is sordid, the characters are a sore or stinking scab. Henri de Mondeville also describes (Ed. Nicaise, p. 421, note) a fraudulent corrosive ulcer.

80/27. *Lutum sapienciæ*, also called *lutum sapientum*, was used by the alchemists for sealing their vessels. It was made with flour, white of egg, chalk and clay.

80/39. Arderne uses *marice* as the special term for the uterus, and employs the word *womb* where we should say "belly." Cf. 11/24, p. 113.

81/11. *Pulv. hermodactilez*. *Hermodactylus* is a name given to many plants with tuberous roots, notably to *hermodactylus tuberosus*. One form was used as a cure for gout, and may have been *colchicum*.

81/30. The *scab* is here scabies or the itch, a contagious disease which the habits of the time made prevalent through every class of society.

82/31. Arsenic was known at this time in the forms of the yellow sulphide, orpiment or Auripigmentum, and the red sulphide or Realgar. Arderne gives an interesting and evidently truthful account of his early experiences with the drug as a local application. Henri de Mondeville held a similar respect for it, perhaps based also on the grounds of experience, for he says "Realgar is strongly corrosive, dangerous and poisonous" (Ed. Nicaise, p. 850).

85/22. The translator has left out a most interesting case which reads as if the patient had Actinomycosis. Digby MS. 161, leaf 18, gives these details, the translation is mine. "A certain man, however, at Bridgeford-on-Trent, in the county of Nottingham, had a bad ulcer upon the back of his hand, and there were grains in it like barleycorns full of blood, and if the hand was compressed by the fingers a sanious and stinking discharge was driven out with itching and sometimes with pain." The patient was completely cured after realgar and soap had been applied.

The text runs :—"Quidam homo tamen in Briggeforde super Trent in Comitatu Notyngham', habuit serpiginem granosam super tergum manus et grana erant similia granis ordeï plena sanguine et si manus cum digitis compressa sanies sub granis erumpebat cum fetore pruritu et aliquando cum dolore.

"Quando vero post multa medicamina recepta cum pulvere realgar' et sapone nigro commixtum totum herpetem predictum bene liniui et firmiter applicaui. Paciens vero ingentem dolorem per diem naturalem perpassus est, et manus nimis erat inflatus pre dolore et calore. Quo viso, superposui vitellum oui crudum cum oleo rosarum, et manum bene cum dicto oleo permixi tandem incepit fieri diuisio circa extremitates ulceris et medicina predicta nihil nocuerat sano corio sed tantummodo quod infectum fuerat mortificauit. Continuato vero medicamine de vitello et oleo rosarum tota illa pellis dicte manus infecta, bene est emulsa et omnino separata sine neruorum aut venarum lesione. Qua vero reparata vulnus cum vitello oui crudo et cum melle rosarum mixto et alifta subtilicia cum stupis lini delicatis inter ossa et emplastrum apposit'.

"Emplastrum jamdictum super stupas lini mundas extensum supraposui et cum hac sola cura peroptime patientem curaui sine mutilacione neruorum aut venarum. Post consolidacionem vulneris supraposui emplastrum de diaquilo resolutum cum unguento maluarum et liliï et supposui longo tempore donec pellis noua fuerat bene digesta et ne reciperet alteracionem a aëre vel alio casu contingente."

87/25. These rules show the excellence of Arderne's practice. The simplest dressings were only renewed when it was necessary. He was in every way an opponent of meddlesome surgery, and thus takes a very high place, not only amongst his contemporaries, but amongst all surgeons.

88/9. And yet almost immediately he shows the lack of critical faculty which characterizes so many mediæval writers. The superstition about the harmfulness of a menstruating woman is well known to all students of folk-medicine. The question is still raised in all seriousness from time to time both in lay and medical papers.

89/7. *Pulv: sanguinis veneris*. The use of human blood was no new thing. Dr. J. F. Payne has an interesting article on the subject, "Arnold de Villa Nova on the therapeutic use of human blood" (Janus, 1903, pp. 432 and 477). Jamerius (cf. 55/3, p. 123) used a powder which he called "human powder," many years before Arderne, "against all wounds." The formula ran, "R. Symphyti; balaustie, rosarum, squinanti, masticis olibani ana ʒij; aluminis, arilli uvarum ana ʒj, atramenti, sanguinis draconis

ana 3ss: galbani 3ij: galle asiane 3j: colofonie, boli armenici ana 3ij: sanguinis humani 3vi. Effunde super pellem arietis et siccati et ejusdem pellis arietine combuste et pulverizate 3ij" [rubric xxxvii].

89/14. *Alkanet* is the root of *Anchusa tinctoria*. It was formerly used as an astringent, but is now only used as a colouring material.

89/30. A *hollow ulcer* or *ulcus concavum* is the same thing, says Henri de Mondeville (Ed. Nicaise, p. 425), as a deep or hidden ulcer. It is any ulcer whose whole extent is not visible. It is often called by "les ydiotes chirurgiens," or "cyrurgici rurales," a fistula, but it differs from a true fistula both in treatment and results.

90/23. The gloss on *edere terrestris* is useful to identify the plant as the ground-ivy, *Hedera helix*, because the term *hedera terrestris* was also applied to the Yew, *Taxus baccata*—called in Mid. Latin *irius*. Dr. Prior (*op. cit.*, p. 261) gives a most interesting account of the chain of blunders which led to the confusion between a creeping form of *Hedera* and a full-grown evergreen shrub.

91/9. *Wild fire* is a synonym for erysipelas. Cf. 41/1. The Persian fire was sometimes shingles (or herpes zoster): sometimes a carbuncle. St. Anthony's fire meant erysipelas in some cases, ergotism or endemic gangrene in others.

91/24. *Pater noster* and *Ave maria*. On this method of estimating small portions of time see Forewords, p. xxix.

94/35. *Cursez of humours* is the flowing of a discharge, just as we still speak of menstruation in a woman as "the courses."

95/14. *Abominaciones of the stomach*. This is a good example of the early spelling of abomination, due, says The New English Dictionary, "To an assumed derivation from *ab homine*, away from man, inhuman, beastly." It really comes from *ab* and *omen*. The word is genuinely expressive of the conditions in gastric catarrh.

97/5. *Walwort* is the dwarf-elder, *Sambucus ebulus*.

97/9. *Plinius* is Pliny the Younger whose "Natural History" is still good reading whether in the original or in Philemon Holland's translation.

Dioscorides is Dioscorides Pedacius who lived in the time of Nero and Vespasian, and was celebrated as the great classical botanist and pharmacologist. His great work, "*περ ὅλης ἰατρικῆς*," appeared in five books.

Macrobius is quoted also by Guy de Chauliac (Ed. Nicaise, p. 12), and by Gilbertus Anglicus. Macrobius died 415 A.D. He wrote "*Saturnalia*," containing miscellaneous remarks on physics, antiquities, literary criticism, etc.

98/6. *Anthrax* is considered both by Salicet and by de Chauliac. Salicet (Ed. Pitteau, p. 176) says that anthrax and carbuncle are the same, except that anthrax is the more malignant and acute. It was called "Bonne Bube," says Guy (Ed. Nicaise, p. 100), "in the opposite sense because it is very wicked and very dangerous," just as we call the fairies "good folk" or say of a baby "how ugly he is."

100/15. The *gymewe3*. The New English Dictionary gives this word as a variant of gemew or gemow, the plural of gemel, twins; and of a door double. It gives as a quotation 1523, in Kirkpatrick, "Relig. Ord. Norwich" (1848) 170, "Within the White Freris, in Norwich, at the Jemowe door." It would be interesting to know whether the *gymewe3* or Jemowe door was peculiar to the Carmelites.

Frere Carome3. It is clear from the Latin text that the Frere Carome3 were the Carmelites or White Friars who had their convent and church

east of the Temple in London. The Carmelite Convent was founded by Sir Richard Gray in 1241, upon ground given by Edward I. In 1350 Courtenay, Earl of Devon, rebuilt the Whitefriars church, and in 1420 Robert Marshall, Bishop of Hereford, added a steeple. At the Dissolution Dr. Butts was given the Chapter house as a residence. The church was pulled down in the reign of Edward VI, but the refectory of the convent remained as the Whitefriars theatre. The right of sanctuary remained for many years, as is known to every reader of Scott's novels. The Library at Lambeth Palace contains a will (Staff. 2, p. 548, Will 91) dated Feb. 1, 1446, and proved May 12, 1449. The will is made by John Arderne, armiger, who desires to be buried by Margaret his wife, if dying in London, or by Elizabeth his wife, if dying at Leygh. "His body," the document states, "is actually buried in the Carmelite church under the marble tomb with Margaret." The will is dated at St. Margaret's, Westminster, and leaves his effects to John, his son, and Bridget, his daughter.

100/33. In 1376, about the time Arderne was writing this treatise, the Commons petitioned the king "that Ribalds . . . and sturdy Beggars may be banished out of every town" (Ribton Turner, "Vagrants and Vagrancy," p. 52).

A truant was any vagabond, beggar or rogue.

100/35. *Jusquiamus* is henbane, *Hyoscyamus niger* or *alba*.

100/36. *3izannie* is the cockle or tares which the wicked man sowed (Matt. xiii. 25). Darnel was a general name for all kinds of cornfield weeds, says Dr. Prior (*op. cit.* 64).

Chessede is chess-seed, chesses being a name applied to the poppy-chasses and chese boules, from the shape of its capsule.

Briony root was looked upon as a powerful hydrogogue purging agent, whilst the juice of the plant was a remedy for gout.

The ribald's potion would not have done much harm even in considerable doses.

101/10. *Cicuta* is water hemlock, the *Cicuta virosa*.

101/12. *Opium* is a tear which flows from the wounded heads or leaves of the black poppy, being ripe. Some promiscuously use it with Meconium, but they do ill; for opium is a drop or tear, Meconium the gross expressed juice from the whole plant. However, they are both of one quality: opium is the finer gum and the stronger, Meconium is the coarser and weaker, yet the more malign.

"Opium is three-fold. 1. Black and hard, from Syria and Aden. 2. Yellower and softer, from Cambaia. 3. White, from Cairo or Thebes, which last, commonly called Thebian opium, is the best, being heavy, thick, strong-scented like Poppy, bitter and sharp, inflammable, almost of the colour of Aloes, and easie to dissolve in water. The counterfeit when washed colours the water like saffron." (Salmon's "New London Dispensatory," 1678, p. 167, col. 2.)

101/16. *Propoleos* is bee bread. Henri de Mondeville in his "Antidotaire" (Ed. Nicaise, p. 831) says: "85. Cera, en grec Propolis, en Arabe Scham'a (Schamha): elle tient le milieu entre les quatre qualités."

102/3. *Castor* was long looked upon as "a most noble Drug of great use in all distempers of the head." It is the secretion from the cloacal glands of the *castor fiber* obtained from the Hudson Bay territory. Its properties have hardly yet been adequately tested, and it is possible that it may regain some of its former prestige.

102/8. The *nux moschata* or *myristica* is the nutmeg, which was looked upon as a comforter of the head and stomach. Mace, which is the arillus of the fruit dried in the sun, has similar properties.

102/8. *Nenufare* is the water-lily used in medicine as an oil, syrup and water. The lily with yellow flowers stoppeth the lask and bloody flux, but the white-flowered lily is the strongest, and is powerful in stopping the Whites, drunk in red wine.

Mirtellez is the *Rubus hortensis*, the garden bramble or dwarf myrtle bush. The leaves astringe and stop fluxes; the fruit and berries bind, cool in fevers, quench thirst, stop vomitings.

102/8. The Manuscript stops here abruptly, but I have copied the charm from another source, partly on account of its intrinsic interest, partly because of the sidelight it sheds on the Duke of Clarence's wedding festivities and of Arderne's desire for secrecy.

104/5. In some of the later manuscripts the words *Enthe* and *Enthanay* have become *Gnthe* and *Gnthenay*.

104/8. *Verbum caro factum est* were words of power in the middle ages. Friar Odoric of Pordenone, who was in Northern China about 1320 when the Yang-tsi floods caused the devastation which some think started the Black Death, says ("Yule, Cathay and the way thither," Hakluyt Soc. I, 156, quoted in Creighton's "History of Epidemics," I, 155): "I saw such numbers of corpses as no one without seeing it could deem credible. And at one side of the valley, in the very rock, I beheld as it were the face of a man very great and terrible, so very terrible indeed that for my exceeding great fear my spirit seemed to die in me. Wherefore I made the sign of the Cross, and began continually to repeat *verbum caro factum*, but I dared not at all come nigh that face, but kept seven or eight paces from it."



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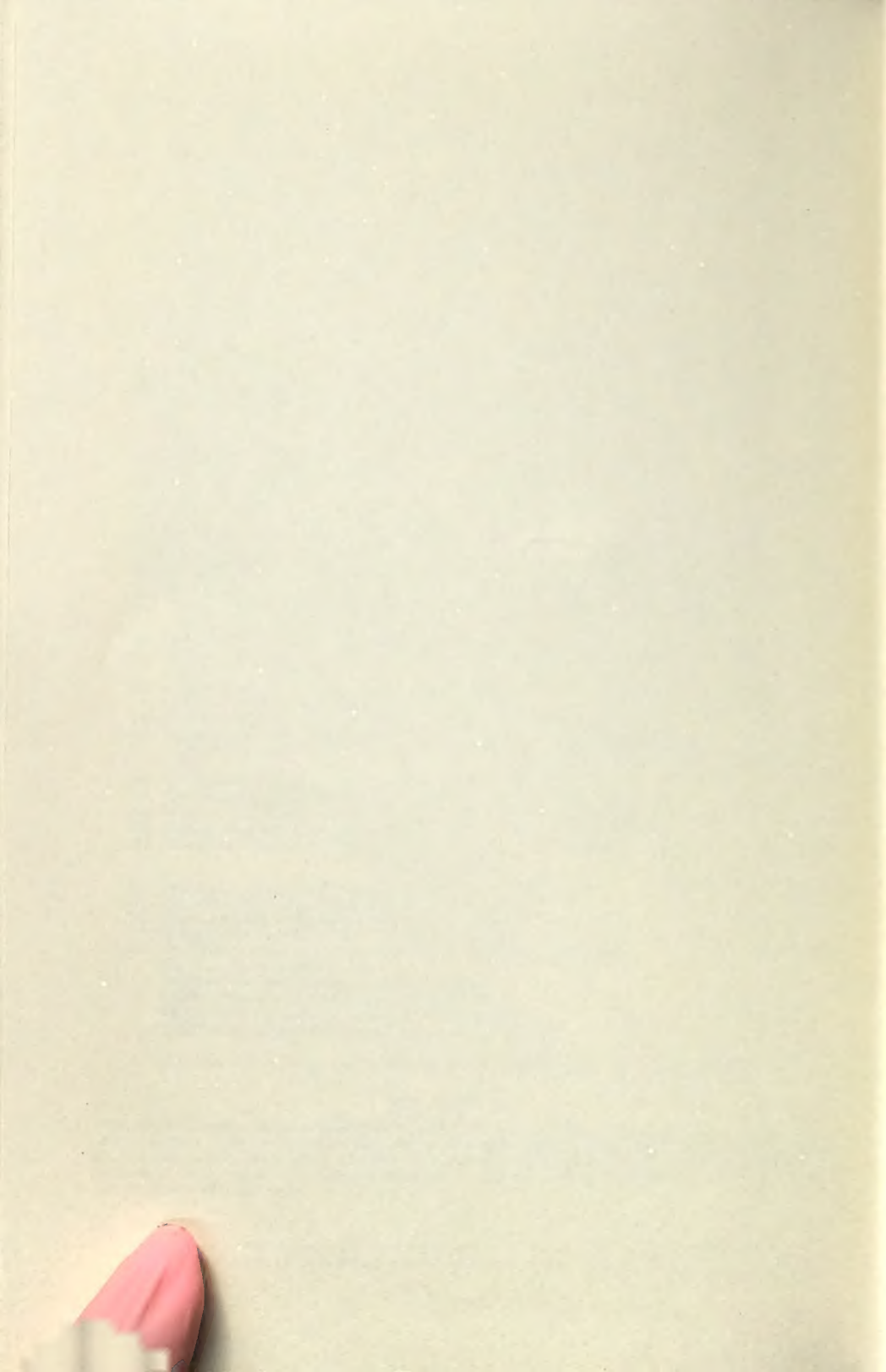
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Other texts are in preparation including three further English versions of the Ancrone Riwe.

Supplementary Texts

The Society proposes to issue some Supplementary Texts from time to time as funds allow. These will be sent to members as part of the normal issue and will also be available to non-members at listed prices. The first of these, Supplementary Text I, expected to appear early in 1970, will be *Non-Cycle Plays and Fragments*, ed. Norman Davis (about 42s.). This is a completely revised and re-set edition of the texts in Extra Series 104 with some additional pieces.

May 1968



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